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FINAL 2011 ANNUAL OPERATIONS REPORT FOR SOIL VAPOR EXTRACTION
CONTAMINATION SYSTEM AT SITE 1 NWIRP BETHPAGE NY
6/1/2012
H & S ENVIRONMENTAL

2011 Annual Operations Report

**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant
Bethpage, New York**

**Contract No. N40085-10-D-9409
Contract Task Order No. 0005**

June 2012

Prepared for:



Naval Facilities Engineering Command Mid-Atlantic
9742 Maryland Avenue
Norfolk, VA 23511

Prepared by:



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Acronyms and Abbreviations

| | |
|--------|---|
| bgs | below ground surface |
| CTO | Contract Task Order |
| DAR | Division of Air Resources |
| DoD | Department of Defense |
| ECOR | ECOR Federal Services, LLC. |
| ELAP | Environmental Laboratory Accreditation Program |
| FMS | Flow Monitoring Station |
| GOCO | Government Owned Contractor Operated |
| H&S | H&S Environmental, Inc. |
| i.w. | inches of water column |
| NAVFAC | Naval Facilities Engineering Command Mid-Atlantic |
| NELAC | National Environmental Accreditation Conference |
| NGC | Northrop Grumman Corporation |
| NWIRP | Naval Weapons Industrial Reserve Plant |
| NYSDEC | New York State Department of Environmental Conservation |
| NYDOH | New York Department of Health |
| O&M | Operation and Maintenance |
| PCB | polychlorinated biphenyls |
| PCE | tetrachloroethene |
| PID | photoionization detector |
| scfm | standard cubic feet per minute |
| SVECS | soil vapor extraction containment system |
| SVEW | soil vapor extraction well |
| SVOC | semi-volatile organic compound |
| TCA | trichloroethane |
| TCE | trichloroethene |
| TCL | target compound list |
| TtEC | Tetra Tech EC, Inc. |
| VGAC | vapor-phase granular activated carbon |
| VOC | volatile organic compound |

1.0 INTRODUCTION

H&S Environmental, Inc. (H&S) has prepared this 2011 Annual Operations Report for the Soil Vapor Extraction Containment System (SVECS) at Site 1, Former Drum Marshalling Yard, at the Naval Weapons Industrial Reserve Plant (NWIRP) in Bethpage, New York. This report has been prepared for the United States Department of the Navy (Navy), Naval Facilities Engineering Command (NAVFAC), Mid-Atlantic, under Contract No. N40085-10-D-9409, Contract Task Order (CTO) 0005. H&S assumed operational responsibility of the SVECS from ECOR Federal Services, LLC (ECOR) on 1 July 2011. This 2011 Annual Operations Report summarizes activities that occurred during 2011 and also further details activities that occurred during the Fourth Quarter 2011 (October 2011 through December 2011). Data collected and operational activities from January 2011 through June 2011 were performed by ECOR, while data collected and operational activities from July 2011 through December 2011 were performed by H&S in accordance with the *Final Operation & Maintenance Plan for Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard at Naval Weapons Industrial Reserve Plant Bethpage, New York* prepared by Tetra Tech EC, Inc. (TtEC) in 2010, hereafter referred to as the “O&M Manual.”

The following quarterly reports, along with data collected during the Fourth Quarter (October 2011 through December 2011), are used as a basis for this 2011 Annual Operations Report:

- *Final Quarterly Operations Report, First Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York* (ECOR 2011).
- *Final Quarterly Operations Report, Second Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York* (ECOR 2011a).
- *Final Quarterly Operations Report, Third Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York* (H&S 2012).

1.1 Site Location

NWIRP Bethpage is located in east central Nassau County, Long Island, New York, approximately 30 miles east of New York City. The Navy's property totaled approximately 109.5 acres and was formerly a Government Owned Contractor-Operated (GOCO) facility that was operated by the Northrop Grumman Corporation (NGC) until September 1998. NWIRP Bethpage is bordered on the north, west, and south by property owned, or formerly owned, by NGC that covered approximately 605 acres, and on the east by a residential neighborhood. Site 1 lies within the fenced area of NWIRP Bethpage and is located east of Plant No. 3, west of 11th Street and north of Plant 17 South (**Figures 1 and 2**).

1.2 Background

NWIRP Bethpage was established in 1941. Since inception, the primary mission of the facility has been the research, prototyping, testing, design engineering, fabrication, and primary assembly of military

aircraft. Historical operations that resulted in hazardous material generation at the facility included metal finishing processes, maintenance operations, painting of aircraft and components, and other activities that involved aircraft manufacturing. Wastes generated by plant operations were disposed of directly into drainage sumps, dry wells, and/or on the ground surface, resulting in the disposal of a number of hazardous wastes, including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and inorganic analytes - chromium and cadmium - at the site. Some of these contaminants have migrated from the points of disposal to surrounding areas, including the soils of these sites and the groundwater beneath and downgradient of the NWIRP Bethpage property. NWIRP Bethpage is currently listed by the New York State Department of Environmental Conservation (NYSDEC) as an “inactive hazardous waste site” (#1-30-003B).

Soils at Site 1 consist mainly of unconsolidated sediments that overlie crystalline bedrock. A clay unit is present near the groundwater table [50 feet below ground surface (bgs)] at the southeast corner of the site. This clay unit is suspected to be a source of chlorinated solvents that are migrating into the overlying soil gas and the source of offsite VOCs in soil vapor (TtEC 2010).

Chlorinated solvents including trichloroethene (TCE), tetrachloroethene (PCE), and 1,1,1-trichloroethane (TCA) have been identified as the VOCs of interest in soil gas at the site. Concentrations greater than 1,000 µg/m³ (micrograms per cubic meter of soil vapor) have been directly associated with Site 1 activities and historical environmental data, and based on preliminary screening, exceed guidelines established by the New York Department of Health (NYDOH) for subslab soil vapor concentrations. Of these compounds, TCE is the primary VOC of concern, and addressing TCE contamination in accordance with NYDOH guidance should address the other VOCs associated with the site. PCBs, cadmium, and chromium have also been identified in site soils at concentrations requiring remediation. The majority of these chemicals has been detected in the central portion of Site 1 and will be addressed via a separate remediation (TtEC 2010).

Prior to implementation of the SVECS, the mean concentrations of VOCs in soil gas samples collected along the eastern fence-line were 41,128 µg/m³ of TCE, 381 µg/m³ of PCE, and 20,634 µg/m³ of 1,1,1-TCA. The maximum concentrations of VOCs in the soil gas samples were 180,000 µg/m³ of TCE, 1,200 µg/m³ of PCE, and 90,000 µg/m³ of 1,1,1-TCA (TtEC 2010).

1.3 Project Overview and Objective

The remedial objective for this project is to use an on-site soil vapor extraction system to prevent further off-site migration of VOC contaminated soil vapor and to the extent practical, capture contaminated soil vapor with a TCE concentration greater than 250 µg/m³. A secondary objective of this project is to address soil vapor with a TCE concentration greater than 5 µg/m³. The SVECS is an interim action intended to address migration of VOCs in contaminated soil vapors and has been designed for a four-year operational life; it is expected to operate continuously 24 hours/day, seven days/week, with the exception of maintenance and adjustment periods (TtEC 2010).

1.4 SVECS Overview

The SVECS consists of soil vapor extraction, soil vapor monitoring, and soil vapor treatment. Twelve SVE wells (SVEWs) are located along the eastern boundary of Site 1 in six clusters, each consisting of one intermediate well and one deep well. Intermediate wells SVE-101I, SVE-102I, SVE-103I, SVE-104I, SVE-105I, and SVE-106I have a screened interval between 25 and 35 ft bgs. Deep wells SVE-101D, SVE-102D, SVE-103D, SVE-104D, SVE-105D, and SVE-106D have a screened interval between 40 and 60 ft bgs. The groundwater table fluctuates between approximately 50 and 55 feet bgs. Each SVEW is operated at a flow rate of 40- 45 standard cubic feet per minute (scfm) for a total flow rate of 475 - 550 scfm. The SVECS has been designed to process a nominal flow of 500 scfm and a maximum flow of 1,000 scfm of soil vapor. Each intermediate depth SVEW requires a vacuum of 4 inches of water column (i.w.) and each deep SVEW requires a vacuum of up to 20 i.w. in order to extract the targeted flow rates. These twelve SVEWs have been piped below the ground to the Flow Monitoring Station (FMS), where flow, vacuum, and vapor quality are monitored. Within the FMS, the discharges from the individual SVEWs have been equipped with a 2-inch flow control butterfly valve, a vacuum gauge, and a sampling port. The sampling port is utilized to measure the flow rate from an individual well using a portable velocity meter and to collect vapor samples. All the SVE lines collect into a single manifold within the FMS and from this location a single underground pipeline has been routed approximately 1,400 linear feet to the Treatment Building (Building 03-35). As discussed below, five additional SVEWs (SV-107D, SV-108D, SV-109D, SV-110D, and SV-111D) were installed in October 2011 to address potential VOCs under Plant No. 3 and the South Warehouse. A site plan depicting well locations is included as **Figure 3**.

The SVECS is housed within the Treatment Building, an existing and unoccupied building also known as Building 03-35. The treatment system consists of a moisture separator, two SVE blowers, and a 5,000-lb vapor-phase granular activated carbon (VGAC) unit for removal of chlorinated VOCs from the off-gas. Soil vapor that enters the Treatment Building first passes through the moisture separator tank where any condensate is separated and removed by a portable pump into 55-gallon drums and then disposed of onsite to the County's sanitary sewer system if necessary. The vapor is then passed through an air filter and SVE blower, and then treated in the VGAC unit. The treated vapor is discharged from the VGAC via an exhaust stack. The SVECS has a control panel comprised of mechanical interlocks and relays for local operation. A Process Flow Diagram is presented in **Figure 4**, which also illustrates the design flow rates through the soil vapor extraction and treatment process.

The off-gas from the SVECS is monitored for chlorinated VOCs as identified in the NYSDEC Division of Air Resources (DAR) permit equivalent effluent limitations (**Appendix A**) and monitoring requirements (TtEC 2010). Samples are submitted to a National Environmental Laboratory Accreditation Conference (NELAC)-accredited, Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory, Analytical Laboratories Services, Inc. located in Middletown, PA, for analysis of target compound list (TCL) VOCs including PCE, 1,1,1-TCA, and TCE by modified method TO-15.

2.0 SVECS OPERATION AND MAINTENANCE

While designed to run completely automated, the SVECS requires regular visits by an operator to record and adjust operational parameters and to perform scheduled maintenance. The SVECS is equipped with telemetry that will call an on-call operator in the event of a plant shutdown.

2.1 Routine Maintenance Activities

Routine maintenance activities at the SVECS were performed during the operator's weekly visits. These activities include general site inspections (of the grounds, buildings, doors and locks), collection of operational data (vapor flowrates, pressures, vacuums, temperature and photoionization detector [PID] readings), adjustment of system valves, collection of vapor samples (on a monthly and quarterly basis), collection/disposal of condensate, cleaning of filters, switching of lead/lag blower assignments, and preventive maintenance of system equipment.

2.2 Non-routine Maintenance / Site Activities

The following non-routine activities were performed at the SVECS during 2011:

- In February 2011, vacuums at SVE-102, SVE-104 and SVE-106 were observed to be above normal operating vacuum (45 i.w. as opposed to 30 i.w.). Condensate inundated the piping leading to these wells, reducing average vapor flowrate of the system from 450-475 scfm to 325-350 scfm. Excess water from the condensate cleanout ports was pumped into a 250-gallon portable tank and discharged into the sanitary sewer. An estimated 1,350 gallons of water was removed and discharged from February through May 2011 (ECOR 2011, 2011a).
- On 19 July 2011, there was a system alarm due to the shutdown of the blowers. The system was restarted upon arrival by the operator.
- The week of 16 October 2011, five additional SVEWs were installed as part of a system expansion designed to address potential VOCs under Plant No. 3 and the south Warehouse.

3.0 SVECS MONITORING

To monitor SVECS effectiveness, several process vapor samples are collected on a monthly basis. These samples include an influent sample (as well as a duplicate sample), located immediately prior to the VGAC unit, and an effluent sample, located after the VGAC unit and before the exhaust stack. In addition, vapor samples are collected from the 12 original SVEWs on a quarterly basis to determine the effectiveness of the remediation activities and monitor the capture of the contaminated soil vapor by the SVEWs.

3.1 Monthly Air Quality Monitoring

Analysis of influent and effluent sample locations is performed to evaluate VOC mass removal and the effectiveness of the VGAC adsorption unit. Composite vapor samples are collected using 6-L summa canisters with 30-minute flow regulators.

Treated off-gas discharged at the exhaust stack is subject to emissions limitations and associated calculations approved by the NYSDEC DAR in February 2010. A copy of the NYSDEC approved calculations is presented in the Air Permit Equivalent included as **Appendix A**.

3.1.1 Fourth Quarter 2011 Summary

A summary of monthly vapor sampling results collected in October, November, and December 2011 (Fourth Quarter 2011) is presented in **Tables 1, 2, and 3**, respectively. Emission rate calculations for both the influent stream (“prior to treatment”) and effluent stream (“following treatment”) and estimated monthly mass recoveries are also presented. Emission rates of the influent stream are calculated to monitor progress and determine when influent concentrations have reached levels at which vapor treatment via carbon adsorption is no longer required. The data presented in **Tables 1, 2, and 3** demonstrate that all permitted constituents were in compliance with the effluent emission rates presented in the Air Permit Equivalent in **Appendix A**. Raw analytical data is presented in **Appendix B**.

Monthly emission rate calculations for January – September 2011 are included in previously submitted quarterly operations reports as indicated in Section 1.0.

3.1.2 2011 Annual Summary

Emissions

Table 4 summarizes annual air emissions based on monthly emissions during the 12-month period. During 2011, approximately 8.42 lbs of total VOCs were emitted. Annual emission of permitted constituents was well within the permit guidelines as indicated below:

| Constituents | Annual Emissions | Permitted Guideline |
|--------------|------------------|---------------------|
| 1,1-DCA | 0.52 lb | 11 lb |
| 1,1-DCE | 0.044 lb | 16 lb |
| cis-1,2-DCE | 2.60 lb | 5 lb |
| PCE | 0.0033 lb | 8 lb |
| 1,1,1-TCA | 2.37 lb | 591 lb |
| TCE | 0.066 lb | 1,181 lb |

Mass Recovery

Mass recovery was calculated based on monthly influent concentrations combined with monthly influent flow totals. During 2011, approximately 25.81 lbs of VOCs were removed by the SVECS, for an average monthly mass recovery rate of approximately 2.15 lbs per month. Monthly mass recovery calculations are presented in **Tables 1, 2, and 3**, and summarized annually in **Table 4**.

3.2 Quarterly Air Quality Monitoring

Composite vapor samples are collected quarterly using 6-L summa canisters with 30-minute flow regulators at six intermediate and six deep SVE wells. The samples are collected for the purpose of tracking and documenting the performance of the SVECS at maintaining hydraulic containment and capturing the contaminated soil vapors (TtEC 2010).

3.2.1 Fourth Quarter 2011 Summary

Quarterly vapor samples were collected on 14 October 2011 from the 12 SVEWs. A summary of detected compounds is included as **Table 5**. Raw analytical data is included in **Appendix B**.

3.2.2 2011 Annual Summary

Results of quarterly vapor samples collected from the 12 SVEWs in 2011 are presented in **Table 6**, along with historical results beginning in September 2010. Analytical data associated with these results are presented in previously submitted quarterly operations reports as indicated in Section 1.0.

In addition, a geographical depiction of quarterly analytical results of select VOCs (1,1,1-TCA, PCE, and TCE) detected at the 12 SVEWs in 2011 is included as **Figure 3**.

3.3 Air Quality Concentration Trends

Concentration trends of select VOCs over time for the SVECS combined influent (1,1,1-TCA, PCE, TCE, and total VOCs) and each of the 12 SVEWs (1,1,1-TCA, PCE, and TCE) are presented in **Appendix C**. Concentration trends observed in 2011 are discussed below. In general, unless otherwise indicated, concentrations of 1,1,1-TCA, PCE, and TCE exhibited similar trends at each given location.

- Combined Influent: Overall VOC concentrations in the combined influent increased throughout 2011, with a noticeable rise occurring in August 2011. However, overall concentrations throughout the year remained well below initial concentrations observed in July 2010.
- SV-101I: Concentrations decreased throughout 2011, remaining well below initial concentrations observed in September 2010 and peak concentrations observed in December 2010.
- SV-101D: Concentrations increased substantially in the Third Quarter and then fell back to initially observed concentrations in the Fourth Quarter.
- SV-102I and SV-102D: No apparent trends were observed. Concentrations generally increased throughout 2011 but remained below initial concentrations observed in September 2010.
- SV-103I and SV-103D: Concentrations increased substantially in the Third and Fourth Quarter, reaching the highest concentrations observed to date, with the most significant increases observed in PCE concentrations.

- SV-104I: Concentrations increased in the Third Quarter, though remaining less than initial values observed in September 2010 and decreasing somewhat in the Fourth Quarter.
- SV-104D: Concentrations increased substantially throughout the latter half of 2011, reaching maximum concentrations in the Fourth Quarter, with the most significant increase observed in PCE concentrations.
- SV-105I and SV-105D: Concentrations increased substantially throughout the latter half of 2011, reaching maximum concentrations in the Fourth Quarter, with the most significant increases observed in TCE concentrations.
- SV-106I: No apparent trends were observed. TCE concentrations reached maximum levels in the Second Quarter and remained above initially observed concentrations in the Fourth Quarter.
- SV-106D: Concentrations generally increased gradually throughout 2011, reaching peak concentrations in the Fourth Quarter.

4.0 CONCLUSIONS AND RECOMMENDATIONS

As stated previously, the intent of the Site 1 SVECS is to prevent further off-site migration of VOC contaminated soil vapor and to the extent practical, capture contaminated soil vapor with elevated TCE concentrations. The removal of 25.81 lbs of VOCs by the SVECs in 2011 indicates that progress is being made toward these goals. Influent vapor analytical data with concentrations of TCE consistently greater than 250 µg/L indicate that the SVECS should continue to be operated on a full-time basis to achieve continued capture of contaminated soil vapor. Monthly monitoring of the combined influent and effluent as well as quarterly monitoring of individual SVEWs should continue, and ongoing optimization activities should be performed in order to improve system performance.

5.0 REFERENCES

ECOR Federal Services, LLC. (ECOR). 2011. *Final Quarterly Operations Report, First Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York*. June.

ECOR. 2011a. *Final Quarterly Operations Report, Second Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York*. August.

H&S Environmental, Inc. (H&S). 2012. *Final Quarterly Operations Report, Third Quarter 2011, Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard, Naval Weapons Industrial Reserve Plant, Bethpage, New York*. February.

Tetra Tech EC, Inc. (TtEC). 2010. *Final Operation & Maintenance Plan for Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard at Naval Weapons Industrial Reserve Plant, Bethpage, New York*. June.

TABLES

Table 1
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Monitoring Results
October 2011

| Compound | Concentration ($\mu\text{g}/\text{m}^3$) | | | | Emission Rate ^{(1),(2)} | | | | Monthly Mass Recovery ⁽³⁾ (lbs) | |
|---------------------------|---|----------|-------------|----------|----------------------------------|----------|---------------------|---------|--|--|
| | Influent #1 | | Influent #2 | | Prior to Treatment | | Following Treatment | | | |
| | Average | Effluent | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | | | | |
| Acetone | 6 | 4 | 5 | 8 | 0.0000 | 0.0747 | 0.0000 | 0.1195 | 0.0060 | |
| Acrylonitrile | 0 | 0.5 J | 0.3 J | 0.2 J | 0.0000 | 0.0037 | 0.0000 | 0.0030 | 0.0003 | |
| tert-Amyl methyl ether | 0 | 1 J | 0.5 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Benzene | 0.7 J | 0.9 J | 0.8 J | 0.5 J | 0.0000 | 0.0119 | 0.0000 | 0.0075 | 0.0010 | |
| Benzyl Chloride | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Bromodichloromethane | 0 | 0 | 0 | 0.7 J | 0.0000 | 0.0000 | 0.0000 | 0.0105 | 0.0000 | |
| Bromoform | 0 | 2 J | 1 J | 0 | 0.0000 | 0.0149 | 0.0000 | 0.0000 | 0.0012 | |
| Bromomethane | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| n-Butane | 0 | 0 | 0 | 2 | 0.0000 | 0.0000 | 0.0000 | 0.0299 | 0.0000 | |
| 2-Butanone | 2 | 2 | 2 | 1 | 0.0000 | 0.0299 | 0.0000 | 0.0149 | 0.0024 | |
| tert-Butyl Alcohol | 0 | 0.8 J | 0.4 J | 0.3 J | 0.0000 | 0.0060 | 0.0000 | 0.0045 | 0.0005 | |
| Carbon Disulfide | 0.8 J | 1 J | 0.9 J | 0.8 | 0.0000 | 0.0134 | 0.0000 | 0.0119 | 0.0011 | |
| Carbon Tetrachloride | 2 J | 3 | 3 J | 1 J | 0.0000 | 0.0373 | 0.0000 | 0.0149 | 0.0030 | |
| Chlorobenzene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Chlorodibromomethane | 0 | 2 J | 1 J | 0 | 0.0000 | 0.0149 | 0.0000 | 0.0000 | 0.0012 | |
| Chloroethane | 0 | 0.8 J | 0.4 J | 0.3 J | 0.0000 | 0.0060 | 0.0000 | 0.0045 | 0.0005 | |
| Chloroform | 6 | 7 | 7 | 4 | 0.0000 | 0.0971 | 0.0000 | 0.0597 | 0.0078 | |
| Chloromethane | 0.5 J | 0.7 J | 0.6 J | 0.3 J | 0.0000 | 0.0090 | 0.0000 | 0.0045 | 0.0007 | |
| 3-Chloro-1-propene | 0 | 0.7 J | 0.4 J | 0 | 0.0000 | 0.0052 | 0.0000 | 0.0000 | 0.0004 | |
| Cyclohexane | 0 | 0.8 J | 0.4 J | 0 | 0.0000 | 0.0060 | 0.0000 | 0.0000 | 0.0005 | |
| 1,2-Dibromoethane | 0 | 2 J | 1 J | 0 | 0.0000 | 0.0149 | 0.0000 | 0.0000 | 0.0012 | |
| 1,2-Dichlorobenzene | 1 J | 1 J | 1 J | 0.6 J | 0.0000 | 0.0149 | 0.0000 | 0.0090 | 0.0012 | |
| 1,3-Dichlorobenzene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| 1,4-Dichlorobenzene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Dichlorodifluoromethane | 3 | 3 | 3 | 2 | 0.0000 | 0.0448 | 0.0000 | 0.0299 | 0.0036 | |
| 1,1-Dichloroethane | 21 | 21 | 21 | 37 | 0.0000 | 0.3137 | 0.0001 | 0.5526 | 0.0252 | |
| 1,2-Dichloroethane | 2 J | 2 | 2 J | 0.5 J | 0.0000 | 0.0299 | 0.0000 | 0.0075 | 0.0024 | |
| 1,1-Dichloroethene | 2 | 2 | 2 | 3 | 0.0000 | 0.0299 | 0.0000 | 0.0448 | 0.0024 | |
| cis-1,2-Dichloroethene | 220 | 210 | 215 | 400 | 0.0004 | 3.2112 | 0.0007 | 5.9743 | 0.2581 | |
| trans-1,2-Dichloroethene | 3 | 3 | 3 | 4 | 0.0000 | 0.0448 | 0.0000 | 0.0597 | 0.0036 | |
| 1,2-Dichloropropane | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| cis-1,3-Dichloropropene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| 1,4-Dioxane | 0.9 J | 0 | 0.5 J | 0 | 0.0000 | 0.0067 | 0.0000 | 0.0000 | 0.0005 | |
| Ethanol | 2 | 2 | 2 | 1 | 0.0000 | 0.0299 | 0.0000 | 0.0149 | 0.0024 | |
| Ethyl tert-butyl ether | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Ethylbenzene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| 4-ethyltoluene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Freon 113 | 58 | 55 | 57 | 120 | 0.0001 | 0.8439 | 0.0002 | 1.7923 | 0.0678 | |
| Freon 114 | 0 | 2 J | 1 J | 0 | 0.0000 | 0.0149 | 0.0000 | 0.0000 | 0.0012 | |
| Heptane | 0.9 J | 1 J | 1 J | 0 | 0.0000 | 0.0142 | 0.0000 | 0.0000 | 0.0011 | |
| Hexachlorobutadiene | 0 | 3 J | 2 J | 0 | 0.0000 | 0.0224 | 0.0000 | 0.0000 | 0.0018 | |
| Hexane | 0.7 J | 2 | 1 | 0.4 J | 0.0000 | 0.0202 | 0.0000 | 0.0060 | 0.0016 | |
| 2-Hexanone | 0 | 0.9 J | 0.45 | 0 | 0.0000 | 0.0067 | 0.0000 | 0.0000 | 0.0005 | |
| Isopropyl alcohol | 1 J | 2 | 2 | 0.8 | 0.0000 | 0.0224 | 0.0000 | 0.0119 | 0.0018 | |
| Isopropylbenzene | 11 | 1 J | 6 | 46 | 0.0000 | 0.0896 | 0.0001 | 0.6870 | 0.0072 | |
| p-Isopropyltoluene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Methyl Methacrylate | 0 | 0.8 J | 0.4 J | 1 | 0.0000 | 0.0060 | 0.0000 | 0.0149 | 0.0005 | |
| Methyl-tert-Butyl-Ether | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| MBK | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Methylene Chloride | 1 J | 5 | 3 J | 1 | 0.0000 | 0.0448 | 0.0000 | 0.0149 | 0.0036 | |
| Naphthalene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| iso-Octane | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| 1,1,2,2-Tetrachloroethane | 0 | 2 J | 1 J | 0 | 0.0000 | 0.0149 | 0.0000 | 0.0000 | 0.0012 | |
| Tetrachloroethene | 1100 | 950 | 1025 | 0.7 J | 0.0017 | 15.3092 | 0.0000 | 0.0105 | 1.2303 | |
| Tertahydrofuran | 4 | 5 | 5 | 68 | 0.0000 | 0.0672 | 0.0001 | 1.0156 | 0.0054 | |
| Toluene | 2 | 1 J | 2 J | 0.5 J | 0.0000 | 0.0224 | 0.0000 | 0.0075 | 0.0018 | |
| Total Xylenes | 3 J | 3 J | 3 J | 0 | 0.0000 | 0.0448 | 0.0000 | 0.0000 | 0.0036 | |
| 1,2,4-Trichlorobenzene | 0 | 2 J | 1 J | 0 | 0.0000 | 0.0149 | 0.0000 | 0.0000 | 0.0012 | |
| 1,1,1-Trichloroethane | 280 | 270 | 275 | 350 | 0.0005 | 4.1073 | 0.0006 | 5.2275 | 0.3301 | |
| 1,1,2-Trichloroethane | 1 J | 2 J | 2 J | 0 | 0.0000 | 0.0224 | 0.0000 | 0.0000 | 0.0018 | |
| Trichloroethene | 1400 | 1100 | 1250 | 6 | 0.0021 | 18.6697 | 0.0000 | 0.0896 | 1.5004 | |
| Trichlorofluoromethane | 3 | 4 | 4 | 2 | 0.0000 | 0.0523 | 0.0000 | 0.0299 | 0.0042 | |
| 1,2,3-Trichloropropane | 0 | 2 J | 1 J | 0 | 0.0000 | 0.0149 | 0.0000 | 0.0000 | 0.0012 | |
| 1,2,4-Trimethylbenzene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| 1,3,5-Trimethylbenzene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Vinyl Bromide | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0075 | 0.0000 | 0.0000 | 0.0006 | |
| Vinyl Chloride | 0.6 J | 0.8 J | 0.7 J | 0.4 J | 0.0000 | 0.0105 | 0.0000 | 0.0060 | 0.0008 | |
| Total VOCs | 3139 | 2707 | 2923 | 1064 | 0.0050 | 43.6557 | 0.0018 | 15.8917 | 3.5084 | |

Notes:

All samples were analyzed for full list VOCs by modified method TO-15. Only detected analytes are presented above.

Average Monthly Vapor Temp (°F) = 103

Average Monthly Flowrate (cfm) = 486

Average Monthly Flowrate (scfm) = 456

Operational Hours for the month = 704

(1) Emissions (lbs/hr) = Concentration ($\mu\text{g}/\text{m}^3$) * (lb/4540000000 μg) * (0.3048 \wedge 3 m^3/ft^3) * exhaust flow (scfm) * (60min/hour)

(2) Emissions (lbs/yr) = Emissions (lbs/hour) * (8760hours/yr)

(3) Monthly Mass Recovery = AVG FLOWRATE (scfm) * 0.3048 \wedge 3 m^3/ft^3 * INF AVG CONC ($\mu\text{g}/\text{m}^3$) * (lb/4540000000 μg) * 60 min/hr * OPERATIONAL TIME (hr)

Table 2
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Monitoring Results
November 2011

| Compound | Concentration ($\mu\text{g}/\text{m}^3$) | | | | Emission Rate ^{(1),(2)} | | | | Monthly Mass Recovery ⁽³⁾ (lbs) | |
|--------------------------|---|-------------|-------------|----------|----------------------------------|----------|---------------------|----------|--|--|
| | Influent #1 | | Influent #2 | | Prior to Treatment | | Following Treatment | | | |
| | Influent #1 | Influent #2 | Average | Effluent | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | | |
| Acetone | 8 | 5 | 7 | 6 | 0.0000 | 0.1047 | 0.0000 | 0.0967 | 0.0086 | |
| Benzene | 0 | 0 | 0 | 0.3 J | 0.0000 | 0.0000 | 0.0000 | 0.0048 | 0.0000 | |
| n-Butane | 0 | 1 | 1 | 1 | 0.0000 | 0.0081 | 0.0000 | 0.0161 | 0.0007 | |
| 2-Butanone | 9 | 8 | 9 | 0.5 J | 0.0000 | 0.1370 | 0.0000 | 0.0081 | 0.0113 | |
| Carbon Tetrachloride | 2 J | 2 J | 2 J | 0 | 0.0000 | 0.0322 | 0.0000 | 0.0000 | 0.0026 | |
| Chloroform | 4 | 4 | 4 | 3 | 0.0000 | 0.0645 | 0.0000 | 0.0483 | 0.0053 | |
| Chloromethane | 0 | 0 | 0 | 0.2 J | 0.0000 | 0.0000 | 0.0000 | 0.0032 | 0.0000 | |
| Dichlorodifluoromethane | 2 | 3 | 3 | 2 | 0.0000 | 0.0403 | 0.0000 | 0.0322 | 0.0033 | |
| 1,1-Dichloroethane | 20 | 21 | 21 | 29 | 0.0000 | 0.3304 | 0.0001 | 0.4673 | 0.0272 | |
| 1,2-Dichloroethane | 0.9 J | 1 J | 1 J | 0 | 0.0000 | 0.0153 | 0.0000 | 0.0000 | 0.0013 | |
| 1,1-Dichloroethene | 3 | 4 | 4 | 2 | 0.0000 | 0.0564 | 0.0000 | 0.0322 | 0.0046 | |
| cis-1,2-Dichloroethene | 170 | 180 | 175 | 200 | 0.0003 | 2.8201 | 0.0004 | 3.2230 | 0.2318 | |
| trans-1,2-Dichloroethene | 2 | 2 | 2 | 3 | 0.0000 | 0.0322 | 0.0000 | 0.0483 | 0.0026 | |
| Ethanol | 2 | 2 | 2 | 2 | 0.0000 | 0.0322 | 0.0000 | 0.0322 | 0.0026 | |
| Freon 113 | 82 | 86 | 84 | 95 | 0.0002 | 1.3537 | 0.0002 | 1.5309 | 0.1113 | |
| Hexane | 2 | 2 | 2 | 3 | 0.0000 | 0.0322 | 0.0000 | 0.0483 | 0.0026 | |
| Isopropyl alcohol | 0.9 J | 0 | 0.5 J | 0.9 | 0.0000 | 0.0073 | 0.0000 | 0.0145 | 0.0006 | |
| Isopropylbenzene | 9 | 0 | 5 | 4 | 0.0000 | 0.0725 | 0.0000 | 0.0645 | 0.0060 | |
| Methyl-tert-Butyl-Ether | 0 | 0 | 0 | 1 | 0.0000 | 0.0000 | 0.0000 | 0.0161 | 0.0000 | |
| Methylene Chloride | 3 | 3 | 3 | 23 | 0.0000 | 0.0483 | 0.0000 | 0.3706 | 0.0040 | |
| iso-Octane | 5 | 5 | 5 | 0 | 0.0000 | 0.0806 | 0.0000 | 0.0000 | 0.0066 | |
| Tetrachloroethene | 940 | 920 | 930 | 0 | 0.0017 | 14.9869 | 0.0000 | 0.0000 | 1.2318 | |
| Tertahydrofuran | 23 | 23 | 23 | 48 | 0.0000 | 0.3706 | 0.0001 | 0.7735 | 0.0305 | |
| Toluene | 0 | 0 | 0 | 0.7 J | 0.0000 | 0.0000 | 0.0000 | 0.0113 | 0.0000 | |
| 1,2,4-Trichlorobenzene | 0 | 0 | 0 | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| 1,1,1-Trichloroethane | 270 | 280 | 275 | 190 | 0.0005 | 4.4316 | 0.0003 | 3.0618 | 0.3642 | |
| 1,1,2-Trichloroethane | 0 | 0 | 0 | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Trichloroethene | 1200 | 1100 | 1150 | 9 | 0.0021 | 18.5322 | 0.0000 | 0.1450 | 1.5232 | |
| Vinyl Bromide | 0 | 0 | 0 | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Vinyl Chloride | 0 | 0.6 J | 0.3 J | 0.3 J | 0.0000 | 0.0048 | 0.0000 | 0.0048 | 0.0004 | |
| Total VOCs | 2758 | 2653 | 2705 | 624 | 0.0050 | 43.5942 | 0.0011 | 10.0541 | 3.5831 | |

Notes:

All samples were analyzed for full list VOCs by modified method TO-15. Only detected analytes are presented above.

Average Monthly Vapor Temp (°F) = 98
 Average Monthly Flowrate (cfm) = 520
 Average Monthly Flowrate (scfm) = 492
 Operational Hours for the month = 720

(1) Emissions (lbs/hr) = Concentration ($\mu\text{g}/\text{m}^3$) * (lb/454000000 μg) * (0.3048 ft^3/m^3) * exhaust flow (scfm) * (60min/hour)

(2) Emissions (lbs/yr) = Emissions (lbs/hour) * (8760hours/yr)

(3) Monthly Mass Recovery = AVG FLOWRATE (scfm) * 0.3048 ft^3/m^3 * INF AVG CONC ($\mu\text{g}/\text{m}^3$) * (lb/454000000 μg) * 60 min/hr * OPERATIONAL TIME (hr)

Table 3
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Monitoring Results
December 2011

| Compound | Concentration ($\mu\text{g}/\text{m}^3$) | | | | Emission Rate ^{(1),(2)} | | | | Monthly Mass Recovery ⁽³⁾ (lbs) |
|--------------------------|---|-------------|---------|----------|----------------------------------|---------------------------------|----------|----------|--|
| | Influent #1 | Influent #2 | Average | Effluent | Prior to Treatment (lbs/hr) | Following Treatment (lbs/yr) | (lbs/hr) | (lbs/yr) | |
| | | | | | | | | | |
| Acetone | 7 | 4 | 6 | 36 | 0.0000 | 0.0847 | 0.0001 | 0.5547 | 0.0072 |
| Benzene | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0077 | 0.0000 | 0.0000 | 0.0007 |
| Bromomethane | 0 | 0.9 J | 0.5 J | 0 | 0.0000 | 0.0069 | 0.0000 | 0.0000 | 0.0006 |
| 1,3-Butadiene | 0 | 0.5 J | 0.3 J | 0 | 0.0000 | 0.0039 | 0.0000 | 0.0000 | 0.0003 |
| n-Butane | 0.7 J | 0 | 0.4 J | 0.9 | 0.0000 | 0.0054 | 0.0000 | 0.0139 | 0.0005 |
| 2-Butanone | 2 | 2 | 2 | 1 | 0.0000 | 0.0308 | 0.0000 | 0.0154 | 0.0026 |
| Carbon Disulfide | 0 | 0.7 J | 0.4 J | 0 | 0.0000 | 0.0054 | 0.0000 | 0.0000 | 0.0005 |
| Carbon Tetrachloride | 3 | 4 | 4 J | 0 | 0.0000 | 0.0539 | 0.0000 | 0.0000 | 0.0046 |
| Chloroform | 2 | 3 | 3 | 2 | 0.0000 | 0.0385 | 0.0000 | 0.0308 | 0.0033 |
| Chloromethane | 0 | 0.6 J | 0.3 J | 0 | 0.0000 | 0.0046 | 0.0000 | 0.0000 | 0.0004 |
| Cyclohexane | 0 | 1 | 1 J | 0 | 0.0000 | 0.0077 | 0.0000 | 0.0000 | 0.0007 |
| Dichlorodifluoromethane | 3 | 4 | 4 | 3 | 0.0000 | 0.0539 | 0.0000 | 0.0462 | 0.0046 |
| 1,1-Dichloroethane | 17 | 18 | 18 | 17 | 0.0000 | 0.2697 | 0.0000 | 0.2620 | 0.0229 |
| 1,2-Dichloroethane | 0 | 1 J | 1 J | 0 | 0.0000 | 0.0077 | 0.0000 | 0.0000 | 0.0007 |
| 1,1-Dichloroethene | 1 J | 2 | 2 J | 2 | 0.0000 | 0.0231 | 0.0000 | 0.0308 | 0.0020 |
| cis-1,2-Dichloroethene | 170 | 170 | 170 | 190 | 0.0003 | 2.6195 | 0.0003 | 2.9277 | 0.2225 |
| trans-1,2-Dichloroethene | 2 | 2 | 2 | 2 | 0.0000 | 0.0308 | 0.0000 | 0.0308 | 0.0026 |
| Ethanol | 3 | 2 | 3 | 4 | 0.0000 | 0.0385 | 0.0000 | 0.0616 | 0.0033 |
| Freon 113 | 54 | 55 | 55 | 63 | 0.0001 | 0.8398 | 0.0001 | 0.9708 | 0.0713 |
| Freon 114 | 0 | 2 J | 1 J | 0 | 0.0000 | 0.0154 | 0.0000 | 0.0000 | 0.0013 |
| Hexane | 0.8 J | 4 | 2 J | 0 | 0.0000 | 0.0370 | 0.0000 | 0.0000 | 0.0031 |
| 2-Hexanone | 0 | 0 | 0 | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Isopropyl alcohol | 1 | 2 | 2 | 1 | 0.0000 | 0.0231 | 0.0000 | 0.0154 | 0.0020 |
| Isopropylbenzene | 9 | 0 | 5 | 3 | 0.0000 | 0.0693 | 0.0000 | 0.0462 | 0.0059 |
| Methyl Methacrylate | 0 | 0 | 0 | 0.5 J | 0.0000 | 0.0000 | 0.0000 | 0.0077 | 0.0000 |
| Methylene Chloride | 2 | 4 | 3 | 1 | 0.0000 | 0.0462 | 0.0000 | 0.0154 | 0.0039 |
| iso-Octane | 2 | 1 J | 2 J | 0 | 0.0000 | 0.0231 | 0.0000 | 0.0000 | 0.0020 |
| Tetrachloroethene | 660 | 510 | 585 | 0 | 0.0010 | 9.0143 | 0.0000 | 0.0000 | 0.7656 |
| Tertahydrofuran | 3 | 3 | 3 | 28 | 0.0000 | 0.0462 | 0.0000 | 0.4315 | 0.0039 |
| Toluene | 2 | 1 J | 2 J | 0 | 0.0000 | 0.0231 | 0.0000 | 0.0000 | 0.0020 |
| Total Xylenes | 6 | 0 | 3 | 0 | 0.0000 | 0.0462 | 0.0000 | 0.0000 | 0.0039 |
| 1,1,1-Trichloroethane | 260 | 250 | 255 | 220 | 0.0004 | 3.9293 | 0.0004 | 3.3900 | 0.3337 |
| Trichloroethene | 980 | 1000 | 990 | 14 | 0.0017 | 15.2549 | 0.0000 | 0.2157 | 1.2956 |
| Trichlorofluoromethane | 5 | 6 | 6 | 4 | 0.0000 | 0.0847 | 0.0000 | 0.0616 | 0.0072 |
| Vinyl Chloride | 0 | 0.9 J | 0.5 J | 0 | 0.0000 | 0.0069 | 0.0000 | 0.0000 | 0.0006 |
| Total VOCs | 2196 | 2056 | 2126 | 592 | 0.0037 | 32.7526 | 0.0010 | 9.1283 | 2.7817 |

Notes:

All samples were analyzed for full list VOCs by modified method TO-15. Only detected analytes are presented above.

Average Monthly Vapor Temp (°F) = 92
 Average Monthly Flowrate (cfm) = 491
 Average Monthly Flowrate (scfm) = 470
 Operational Hours for the month = 744

(1) Emissions (lbs/hr) = Concentration ($\mu\text{g}/\text{m}^3$) * (lb/454000000 μg) * (0.3048 ft^3/m^3) * exhaust flow (scfm) * (60min/hour)

(2) Emissions (lbs/yr) = Emissions (lbs/hour) * (8760hours/yr)

(3) Monthly Mass Recovery = AVG FLOWRATE (scfm) * 0.3048 ft^3/m^3 * INF AVG CONC ($\mu\text{g}/\text{m}^3$) * (lb/454000000 μg) * 60 min/hr * OPERATIONAL TIME (hr)

Table 4
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
2011 Air Emission and Mass Recovery Summary

| | 1,1-DCA Effluent Emission Rate | | 1,1-DCE Effluent Emission Rate | | cis-1,2-DCE Effluent Emission Rate | | PCE Effluent Emission Rate | | 1,1,1-TCA Effluent Emission Rate | | TCE Effluent Emission Rate | | Total VOCs Effluent Emission Rate | | Mass Recovery (Total VOCs) |
|-----------------------|--------------------------------|--------|--------------------------------|--------|------------------------------------|--------|----------------------------|--------|----------------------------------|--------|----------------------------|--------|-----------------------------------|-------|----------------------------|
| Month | lb/hr | lb/mo | lb/hr | lb/mo | lb/hr | lb/mo | lb/hr | lb/mo | lb/hr | lb/mo | lb/hr | lb/mo | lb/hr | lb/mo | lb/mo |
| Jan-11 | 0.0000 | 0.0195 | 0.0000 | 0.0023 | 0.0001 | 0.0481 | 0.0000 | 0.0000 | 0.0000 | 0.0241 | 0.0000 | 0.0000 | 0.0002 | 0.17 | 1.09 |
| Feb-11 | 0.0000 | 0.0150 | 0.0000 | 0.0016 | 0.0001 | 0.0364 | 0.0000 | 0.0000 | 0.0000 | 0.0190 | 0.0000 | 0.0000 | 0.0002 | 0.13 | 1.50 |
| Mar-11 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.02 | 1.14 |
| Apr-11 | 0.0000 | 0.0223 | 0.0000 | 0.0020 | 0.0001 | 0.0650 | 0.0000 | 0.0000 | 0.0001 | 0.0416 | 0.0000 | 0.0010 | 0.0004 | 0.25 | 1.29 |
| May-11 ⁽¹⁾ | 0.0000 | 0.0223 | 0.0000 | 0.0020 | 0.0001 | 0.0650 | 0.0000 | 0.0000 | 0.0001 | 0.0416 | 0.0000 | 0.0010 | 0.0004 | 0.25 | 1.29 |
| Jun-11 | 0.0001 | 0.0887 | 0.0000 | 0.0072 | 0.0003 | 0.2037 | 0.0000 | 0.0024 | 0.0003 | 0.2397 | 0.0000 | 0.0036 | 0.0012 | 0.90 | 1.75 |
| Jul-11 | 0.0002 | 0.1222 | 0.0000 | 0.0086 | 0.0004 | 0.3300 | 0.0000 | 0.0000 | 0.0004 | 0.2689 | 0.0000 | 0.0037 | 0.0016 | 1.20 | 1.32 |
| Aug-11 | 0.0001 | 0.0716 | 0.0000 | 0.0062 | 0.0006 | 0.4319 | 0.0000 | 0.0000 | 0.0005 | 0.3578 | 0.0000 | 0.0049 | 0.0018 | 1.35 | 3.48 |
| Sept-11 | 0.0001 | 0.0533 | 0.0000 | 0.0047 | 0.0006 | 0.4027 | 0.0000 | 0.0000 | 0.0005 | 0.3909 | 0.0000 | 0.0142 | 0.0017 | 1.20 | 3.09 |
| Oct-11 | 0.0001 | 0.0469 | 0.0000 | 0.0038 | 0.0007 | 0.5074 | 0.0000 | 0.0009 | 0.0006 | 0.4440 | 0.0000 | 0.0076 | 0.0018 | 1.35 | 3.51 |
| Nov-11 | 0.0001 | 0.0384 | 0.0000 | 0.0026 | 0.0004 | 0.2649 | 0.0000 | 0.0000 | 0.0003 | 0.2517 | 0.0000 | 0.0119 | 0.0011 | 0.83 | 3.58 |
| Dec-11 | 0.0000 | 0.0222 | 0.0000 | 0.0026 | 0.0003 | 0.2487 | 0.0000 | 0.0000 | 0.0004 | 0.2879 | 0.0000 | 0.0183 | 0.0010 | 0.78 | 2.78 |

| | <u>1,1-DCA</u> | <u>1,1-DCE</u> | <u>cis-1,2-DCE</u> | <u>PCE</u> | <u>1,1,1-TCA</u> | <u>TCE</u> | <u>Total VOCs</u> |
|------------------------|----------------|----------------|--------------------|------------|------------------|------------|-------------------|
| Discharge Goal (lb/yr) | 11 | 16 | 5 | 8 | 591 | 1,181 | --- |
| 2011 Totals (lb/yr) | 0.52 | 0.044 | 2.60 | 0.0033 | 2.37 | 0.066 | 8.42 |

Notes:

lb/hr = pounds per hour

lb/mo = pounds per month

lb/yr = pounds per year

PCE = tetrachloroethane

TCA = trichloroethane

TCE = trichloroethene

(1) Data not available for May 2011. Values from April 2011 are presented instead.

Emission Rate (per hr) = average flowrate (scfm) * (0.3048^3)m³/ft³ * Eff conc (ug/m³) * (lb/454000000ug) * 60 min/hr * operational time (hrs)

Monthly Mass Recovery = average flowrate (scfm) * (0.3048^3)m³/ft³ * Inf avg conc (ug/m³) * (lb/454000000ug) * 60 min/hr * operational time (hrs)

Data prior to July 2011 were collected by others.

Table 5
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Fourth Quarter 2011 Vapor Analytical Results Summary

| Sample ID | SVE 101I | SVE101D | SVE102I | SVE102D | SVE103I | SVE103D | SVE104I | SVE104D | SVE105I | SVE105D | SVE 106I | SVE 106D |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sample Date | 10/14/11 | 10/14/11 | 10/14/11 | 10/14/11 | 10/14/11 | 10/14/11 | 10/14/11 | 10/14/11 | 10/14/11 | 12/02/11 | 10/14/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.7 J | 0.8 J | 2 | 5 | 6 | 31 | 2 | 440 | 31 | 930 | 7 | 29 |
| 1,1,2,2-Tetrachloroethane | 0.8 J | 1 J | 0.8 J | 1 J | ND | 12 J | ND | 9 J | 0.9 J | ND | 1 J | 1 J |
| 1,1,2-Trichloroethane | 0.6 J | 0.7 J | 0.6 J | 0.8 J | ND | 10 J | ND | 7 J | 0.9 J | ND | 0.8 J | 0.9 J |
| 1,1-Dichloroethane | 0.4 J | 0.5 J | 0.5 J | 0.7 J | 2 | 9 | 0.5 J | 77 | 7 | 150 | 1 | 3 |
| 1,1-Dichloroethene | 0.5 J | 0.4 J | 0.4 J | 0.6 J | ND | 6 J | ND | 7 J | 0.5 J | ND | 0.6 J | 0.8 |
| 1,2,2,3-Trichloropropane | 0.8 J | 0.8 J | 0.8 J | 0.9 J | 0.6 J | 11 J | ND | 7 J | 0.9 J | ND | 0.9 J | 1 J |
| 1,2,2,3-Trimethylbenzene | 0.5 J | 1 | 2 | 2 | 7 J | 0.7 J | 6 J | 2 | ND | 2 | 2 | 2 |
| 1,2,4-Trichlorobenzene | ND | ND | ND | 0.8 J | ND | 9 J | ND | ND | 1 J | ND | 0.8 J | 0.9 J |
| 1,2,4-Trimethylbenzene | 0.7 J | 3 | 5 | 6 | 5 | 9 J | 2 | 7 J | 7 | ND | 6 | 4 |
| 1,2-Dibromoethane | 0.8 J | 0.9 J | 0.8 J | 1 J | ND | 11 J | ND | 9 J | 0.8 J | ND | 1 J | 1 J |
| 1,2-Dichlorobenzene | 0.6 J | 0.7 J | ND | 0.8 J | ND | 9 J | ND | 7 J | 0.8 J | ND | 0.9 J | 1 J |
| 1,2-Dichloroethane | 0.5 J | 0.5 J | 0.4 J | 0.5 J | ND | 6 J | ND | 5 J | 0.5 J | ND | 0.6 J | 0.7 J |
| 1,2-Dichloropropane | 0.6 J | 0.5 J | 0.6 J | 0.6 J | ND | 8 J | ND | 5 J | 0.6 J | ND | 0.7 J | 0.8 J |
| 1,3,5-Trimethylbenzene | 0.5 J | 1 | 1 | 1 | 1 | 8 J | 0.5 J | 5 J | 1 | ND | 1 | 1 |
| 1,3-Butadiene | 0.4 J | 0.5 J | ND | 0.4 J | ND | ND | ND | ND | ND | ND | 0.6 | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | 0.7 J | ND | 8 J | ND | ND | 0.7 J | ND | 0.7 J | 0.8 J |
| 1,4-Dichlorobenzene | ND | ND | ND | 0.6 J | ND | 8 J | ND | ND | 0.7 J | ND | 0.7 J | 0.8 J |
| 1,4-Dioxane | ND | ND | 0.4 J | 0.6 J | 0.4 J | 6 J | ND | 4 J | 0.6 J | ND | 0.6 J | 0.7 J |
| 2-Butanone | 1 | 1 | 2 | 1 | 1 | 6 J | 0.8 | 3 J | 1 | ND | 2 | 2 |
| 2-Hexanone | 0.5 J | 0.5 J | 0.5 J | 0.6 J | ND | 5 J | ND | ND | 0.4 J | ND | 0.5 J | 0.8 J |
| 3-Chloro-1-propene | ND | 0.4 J | ND | ND | ND | 4 J | ND | ND | ND | ND | 0.4 J | 0.4 J |
| 4-ethyltoluene | ND | 1 | 1 | 1 | 1 | 8 J | ND | 5 J | 1 | ND | 1 | 1 |
| Acetone | 8 | 9 | 7 | 4 | 3 | 10 | 5 | 8 | 4 | 5 | 9 | 6 |
| alpha-Chlorotoluene | 0.5 J | 0.5 J | ND | 0.6 J | ND | 8 J | ND | 5 J | 0.7 J | ND | 0.7 J | 0.9 J |
| Benzene | 0.6 J | 0.5 J | 0.5 J | 0.9 | 0.5 J | 6 J | 0.4 J | 4 J | 0.6 J | ND | 0.6 J | 0.6 J |
| Bromodichloromethane | 0.8 J | 0.8 J | 0.7 J | 1 J | ND | ND | ND | 7 J | 0.9 J | ND | 1 J | 1 J |
| Bromoform | 1 J | 1 J | 1 J | 1 J | ND | 14 J | ND | 11 J | 1 J | ND | 2 J | 2 J |
| Bromomethane | 0.5 J | 0.5 J | 0.5 J | 0.5 J | 0.4 J | 6 J | ND | 5 J | 0.5 J | ND | 0.6 J | 0.7 J |
| Carbon Disulfide | 0.4 J | 0.5 J | 0.4 J | 0.5 J | 0.5 J | 6 J | 0.5 J | 4 J | 0.6 J | ND | 0.6 | 0.6 |
| Carbon Tetrachloride | 1 J | 1 | 1 J | 2 | 0.9 J | 12 J | 1 J | 8 J | 1 | ND | 3 | 18 |
| Chlorobenzene | 0.5 J | 0.6 J | 0.5 J | 0.7 J | 0.5 J | 8 J | ND | 5 J | 0.6 J | ND | 0.7 J | 0.8 J |
| Chlorodibromomethane | 0.9 J | 1 J | 0.9 J | 1 J | ND | 14 J | ND | 10 J | 1 J | ND | 1 J | 1 J |
| Chloroethane | 0.4 J | 0.4 J | 0.3 J | 0.4 J | 0.3 J | 5 J | ND | 4 J | 0.4 J | ND | 0.5 J | 0.4 J |
| Chloromethane | 0.6 J | 0.7 J | 4 | 17 | 2 | 29 | 1 | 9 J | 3 | 3 J | 2 | 5 |
| Chloromethane | 1 | 1 | 0.4 | 0.4 | 0.4 J | 4 J | 0.8 | 3 J | 0.4 | ND | 0.4 | 0.6 |
| cis-1,2-Dichloroethene | 0.4 J | 0.5 J | 0.5 J | 0.9 | 12 | 160 | 3 | 2100 | 16 | 380 | 4 | 4 |
| cis-1,3-Dichloropropene | ND | ND | ND | 0.6 J | ND | 6 J | ND | ND | 0.5 J | ND | 0.5 J | 0.7 J |
| Cyclohexane | 0.3 J | 0.4 J | 0.4 J | 0.4 J | ND | 5 J | ND | ND | 0.5 J | ND | 0.4 J | 0.4 J |
| Dichlorodifluoromethane | 3 | 3 | 2 | 3 | 2 | 10 | 2 | 8 J | 3 | 3 J | 3 | 3 |
| Diisopropyl ether | ND | ND | ND | ND | 6 J | ND | ND | ND | ND | ND | ND | 1 J |
| Ethanol | 3 | 3 | 4 | 1 | 1 | 9 | 3 | ND | 2 | 10 | 1 | ND |
| Ethyl Acetate | ND | 0.5 J | ND |
| Ethyl tert-butyl ether | ND | ND | ND | 0.5 J | ND | 5 J | ND | ND | 0.4 J | ND | 0.5 J | 0.6 J |
| Ethylbenzene | 0.5 J | 0.9 | 1 | 1 | 1 | 7 J | 0.6 J | 5 J | 1 | ND | 1 | 1 |
| Freon 113 | 1 J | 1 J | 1 J | 2 | 1 J | 20 | 2 | 550 | 3 | 40 | 12 | 25 |
| Freon 114 | 0.9 J | 1 J | 1 J | 1 J | 0.8 J | 12 J | 0.7 J | 9 J | 1 J | ND | 1 J | 1 J |
| Heptane | 0.5 J | 0.5 J | 0.5 J | 0.6 J | ND | 5 J | ND | 5 J | 0.5 J | ND | 0.5 J | 0.6 J |
| Hexachlorobutadiene | 1 J | 1 J | 1 J | 2 J | 1 J | 18 J | ND | 14 J | 2 J | ND | 2 J | 2 J |
| Hexane | 0.7 | 0.8 | 0.8 | 0.5 J | 0.6 J | 6 J | 0.4 J | 4 J | 0.5 J | ND | 1 | 0.6 J |
| Iso-Octane | 0.6 J | 0.6 J | 0.6 J | 0.7 J | 0.5 J | 8 J | 0.5 J | 6 J | 0.7 J | ND | 0.8 J | 0.8 J |
| Isopropylbenzene | 0.6 J | 0.6 J | 0.6 J | 0.8 J | ND | 8 J | ND | 6 J | 0.8 J | ND | 0.7 J | 0.8 J |
| Isopropyl alcohol | 0.7 | 0.9 | 0.8 | 1 | 0.5 J | 5 J | 0.5 | 4 J | 7 | ND | 1 | ND |
| Methyl Methacrylate | 0.4 J | 3 | ND | 0.4 J | ND | 5 J | ND | ND | 0.4 J | ND | 0.5 J | 0.4 J |
| Methyl-tert-Butyl-Ether | 0.4 J | 0.4 J | 0.4 J | 0.4 J | 0.6 J | 6 J | ND | 4 J | 0.4 J | ND | 0.7 | 0.5 J |
| Methylene Chloride | 2 | 2 | 3 | 0.9 | 1 | 11 | 0.9 | 6 J | 1 | 3 J | 5 | 1 |
| MIBK | 0.4 J | 0.5 J | ND | 0.4 J | ND | 6 J | ND | ND | 0.5 J | ND | 0.5 J | 0.6 J |
| Naphthalene | ND | 0.9 J | 1 | 2 | 2 | 5 J | 0.7 J | 5 J | 8 | ND | 2 | 3 |
| n-Butane | 0.8 | ND |
| n-Isopropyltoluene | ND | ND | ND | 0.7 J | ND | 7 J | ND | ND | 0.7 J | ND | 0.8 J | 0.9 J |
| n-Propylbenzene | ND | 0.8 J | 0.9 J | 1 | 0.9 J | 6 J | ND | ND | 1 | ND | 0.9 J | 0.9 J |
| Propylene | 0.5 | 0.4 | ND | ND | ND | ND | 0.4 | 3 J | ND | ND | MD | MD |
| Styrene | ND | ND | ND | 0.5 J | ND | 5 J | ND | ND | 0.5 J | ND | 0.5 J | 0.6 J |
| tert-Amyl methyl ether | 0.5 J | 0.5 J | 0.4 J | 0.5 J | ND | 6 J | ND | 4 J | 0.5 J | ND | 0.6 J | 0.6 J |
| tert-Butyl Alcohol | 0.4 J | 0.5 J | 0.5 J | 0.6 | 0.9 | 5 J | 0.3 J | 3 J | 0.4 J | ND | 0.8 | ND |
| Tetrachloroethene | 2 | 2 | 6 | 39 | 590 | 6700 | 33 | 6300 | 100 | 330 | 19 | 66 |
| Tetrahydrofuran | 0.5 J | 1 | 1 | 1 | 1 | 6 | 0.8 | 3 J | 2 | 2 J | 2 | 2 |
| Toluene | 0.8 | 1 | 1 | 2 | 1 | 6 J | 0.6 J | 4 J | 1 | ND | 1 | 3 |
| Total Xylenes | 2 J | 4 | 6 | 7 | 5 | 21 J | 2 J | 14 J | 6 | ND | 6 | 6 |
| trans-1,2-Dichloroethene | 0.4 J | 0.4 J | 0.4 J | 0.5 J | 1 | 7 J | 0.4 J | 22 | 1 | 3 J | 0.7 J | 0.9 |
| trans-1,3-Dichloropropene | ND | ND | ND | 0.5 J | ND | 5 J | ND | ND | 0.5 J | ND | ND | 0.6 J |
| Trichloroethene | 0.6 J | 1 J | 52 | 87 | 97 | 240 | 25 | 1300 | 200 | 7000 | 190 | 320 |
| Trichlorofluoromethane | 2 | 2 | 2 | 13 | 2 | 11 | 2 | 7 J | 2 | ND | 2 | 3 |
| Vinyl Acetate | ND | ND | ND | ND | ND | ND | 0.5 J | 4 J | ND | ND | ND | ND |
| Vinyl Bromide | 0.6 J | 0.6 J | 0.6 J | 0.6 J | ND | 8 J | ND | ND | 0.6 J | ND | 0.7 J | 0.9 |
| Vinyl Chloride | 0.3 J | 5 J | 0.3 J | 5 J | 0.3 J | ND | 0.4 J | 0.5 J |

Notes:

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

All samples were analyzed for full list VOCs by modified method TO-15. Only detected analytes are presented above.

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE 1011 | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/08/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | 450 | 850 | 300 | 1 | 0.7 J | 0.7 J |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | 1 J | 0.7 J | 0.8 J |
| 1,1,2-Trichloroethane | 3 | 5 | ND | 1 J | 0.6 J | 0.6 J |
| 1,1-Dichloroethane | 14 | 31 | 5 | 0.8 J | 0.4 J | 0.4 J |
| 1,1-Dichloroethene | 4 | 8 | ND | 0.7 J | 0.4 J | 0.5 J |
| 1,2,3-Trichloropropane | ND | ND | ND | 1 J | 0.6 J | 0.8 J |
| 1,2,3-Trimethylbenzene | 6 | 2 | ND | 0.6 J | ND | 0.5 J |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 15 | 5 | 2 | 1 | ND | 0.7 J |
| 1,2-Dibromoethane | ND | ND | ND | ND | ND | 0.8 J |
| 1,2-Dichlorobenzene | ND | ND | ND | 0.6 | ND | 0.6 J |
| 1,2-Dichloroethane | 4 | 8 | ND | 0.9 | 0.5 J | 0.5 J |
| 1,2-Dichloropropane | ND | ND | ND | ND | 0.6 J | 0.6 J |
| 1,3,5-Trimethylbenzene | 4 | ND | ND | 0.6 J | ND | 0.5 J |
| 1,3-Butadiene | ND | ND | ND | 0.7 | 0.4 J | 0.4 J |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | ND |
| 1,4-Dioxane | ND | ND | ND | ND | ND | ND |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | 3 | 1 | ND | 3 | 1 | 1 |
| 2-Hexanone | ND | ND | ND | ND | 0.5 J | 0.5 J |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | ND | ND | 0.4 J | ND |
| 4-Ethyltoluene | 3 | ND | ND | 0.7 J | ND | ND |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 9 | 5 | 9 | 22 | 16 | 8 |
| alpha-Chlorotoluene | ND | ND | ND | ND | ND | 0.5 J |
| Acrylonitrile | ND | ND | ND | ND | 0.4 J | ND |
| Benzene | 1 | ND | ND | 1 | 0.4 J | 0.6 J |
| Benzyl Chloride | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 23 | ND | ND | 1 | 0.8 J | 0.8 J |
| Bromoform | ND | ND | ND | ND | ND | 1 J |
| Bromomethane | ND | ND | ND | 0.8 | 0.6 J | 0.5 J |
| Carbon Disulfide | ND | ND | ND | 0.9 | 0.5 J | 0.4 J |
| Carbon Tetrachloride | 2 | ND | ND | 2 | 1 J | 1 J |
| Chlorobenzene | ND | ND | ND | ND | ND | 0.5 J |
| Chlorodibromomethane | ND | ND | ND | ND | ND | 0.9 J |
| Chloroethane | ND | ND | ND | 0.6 | 0.4 J | 0.4 J |
| Chloroform | 2 | 1 | ND | 1 | 0.8 J | 0.6 J |
| Chloromethane | 1 | 0.5 | ND | 1 | 1 | 1 |
| cis-1,2-Dichloroethene | 9 | 15 | 3 | 0.7 J | ND | 0.4 J |
| cis-1,3-Dichloropropene | ND | ND | ND | 0.7 J | ND | ND |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | ND | 0.9 | 0.7 | 0.3 J |
| Dichlorodifluoromethane | 3 | 2 | ND | 3 | 2 | 3 |
| Diisopropyl ether | ND | ND | ND | ND | ND | ND |
| Ethanol | 5 | 4 | 2 | 10 | 7 | 3 |
| Ethyl Acetate | ND | ND | ND | ND | ND | ND |
| Ethyl tert-butyl ether | ND | ND | ND | 0.7 J | ND | ND |
| Ethylbenzene | 3 | ND | ND | 1 | ND | 0.5 J |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | ND | ND | ND | 2 | 2 J | 1 J |
| Freon 114 | ND | ND | ND | 2 | 1 J | 0.9 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | ND | 2 | ND | 0.5 J |
| Hexachlorobutadiene | ND | ND | ND | 2 J | ND | 1 J |
| Hexane | 1 | ND | ND | 3 | 3 | 0.7 |
| iso-Octane | 2 | ND | ND | 4 | ND | 0.6 J |
| Isopropylbenzene | ND | ND | ND | 0.8 J | ND | 0.6 J |
| Isopropyl alcohol | ND | 0.8 | 0.8 | 2 | 3 | 0.7 |
| m,p-Xylene | NR | NR | NR | NR | NR | NR |
| Methyl Methacrylate | ND | ND | ND | 0.6 J | ND | 0.4 J |
| Methyl-tert-Butyl-Ether | ND | ND | ND | 1 | 1 | 0.4 J |
| Methylene Chloride | ND | 1 | 4 | 8 | 17 | 2 |
| MBK | ND | ND | ND | 1 | ND | 0.4 J |
| Naphthalene | 4 | 5 | 5 | ND | ND | ND |
| n-Butane | 0.8 | 0.7 | ND | 2 | 0.7 | 0.8 |
| o-Xylene | NR | NR | NR | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | ND | 0.6 J | ND | ND |
| n-Propylbenzene | 2 | ND | ND | 0.7 J | ND | ND |
| Propylene | ND | 2 | 2 | ND | ND | 0.5 |
| Styrene | ND | ND | ND | 0.7 J | ND | ND |
| tert-Amyl methyl ether | ND | ND | ND | ND | ND | 0.5 J |
| tert-Butyl Alcohol | ND | ND | ND | 0.7 | 0.4 J | 0.4 J |
| Tetrachloroethene | 36 | 63 | 10 | 1 | ND | 2 |
| Tetrahydrofuran | 4 | 2 | 2 | 1 | 1 | 0.5 J |
| Toluene | 3 | ND | ND | 3 | 0.4 J | 0.8 |
| Total Xylenes | 13 | ND | ND | 4 | ND | 2 J |
| trans-1,2-Dichloroethene | ND | ND | ND | 0.7 J | 0.4 J | 0.4 J |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND |
| Trichloroethene | 1200 | 2400 | 560 | 1 | 0.6 J | 0.6 J |
| Trichlorofluoromethane | 2 | 1 | ND | 2 | 2 | 2 |
| Vinyl Acetate | 1 | ND | ND | ND | 0.7 J | ND |
| Vinyl Bromide | ND | ND | ND | 1 | 0.6 J | 0.6 J |
| Vinyl Chloride | ND | ND | ND | 0.5 J | 0.3 J | 0.3 J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE101D | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/22/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | ND | ND | ND | 3 | 8 | 0.8 J |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | 3 | 0.9 J | 1 J |
| 1,1,2-Trichloroethane | ND | ND | ND | 2 | 0.6 J | 0.7 J |
| 1,1-Dichloroethane | ND | ND | ND | 2 | 0.9 J | 0.5 J |
| 1,1-Dichloroethene | ND | ND | ND | ND | 0.7 J | 0.4 J |
| 1,2,3-Trichloropropane | ND | ND | ND | 2 | 0.8 J | 0.8 J |
| 1,2,3-Trimethylbenzene | ND | ND | ND | 4 | 1 | 1 |
| 1,2,4-Trichlorobenzene | ND | ND | ND | 2 J | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | 10 | 3 | 3 |
| 1,2-Dibromoethane | ND | ND | ND | 3 | ND | 0.9 J |
| 1,2-Dichlorobenzene | ND | ND | ND | 2 J | ND | 0.7 J |
| 1,2-Dichloroethane | ND | ND | ND | 2 | 0.5 J | 0.5 J |
| 1,2-Dichloropropane | ND | ND | ND | 2 | 0.6 J | 0.5 J |
| 1,3,5-Trimethylbenzene | ND | ND | ND | 3 | 0.9 J | 1 |
| 1,3-Butadiene | ND | ND | ND | ND | 0.4 J | 0.5 J |
| 1,3-Dichlorobenzene | ND | ND | ND | 1 J | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | 1 J | ND | ND |
| 1,4-Dioxane | ND | ND | ND | 1 | ND | ND |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | ND | 1 | 2 | 8 | 1 | 1 |
| 2-Hexanone | ND | ND | ND | 2 | 0.7 J | 0.5 J |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | ND | ND | 0.4 J | 0.4 J |
| 4-Ethyltoluene | ND | ND | ND | 3 | 0.8 J | 1 |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 19 | 10 | 10 | 36 | 4 | 9 |
| alpha-Chlorotoluene | ND | ND | ND | 2 J | ND | 0.5 J |
| Acrylonitrile | ND | ND | ND | ND | 0.4 J | ND |
| Benzene | ND | 1 | ND | 4 | 0.5 J | 0.5 J |
| Benzyl Chloride | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | 3 | 0.9 J | 0.8 J |
| Bromoform | ND | ND | ND | 3 J | ND | 1 J |
| Bromomethane | ND | ND | ND | 2 | 0.6 J | 0.5 J |
| Carbon Disulfide | ND | ND | ND | 2 | 0.8 | 0.5 J |
| Carbon Tetrachloride | ND | ND | ND | 4 | 1 J | 1 |
| Chlorobenzene | ND | ND | ND | 2 | 0.5 J | 0.6 J |
| Chlorodibromomethane | ND | ND | ND | 3 | 0.9 J | 1 J |
| Chloroethane | ND | ND | ND | ND | 0.4 J | 0.4 J |
| Chloroform | ND | ND | ND | 2 | 7 | 0.7 J |
| Chloromethane | 1 | 2 | ND | 3 | 0.4 | 1 |
| cis-1,2-Dichloroethene | ND | 3 | ND | 2 | 2 | 0.5 J |
| cis-1,3-Dichloropropene | ND | ND | ND | 2 | 0.5 J | ND |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | ND | 2 | 0.4 J | 0.4 J |
| Dichlorodifluoromethane | 2 | 3 | ND | 5 | 3 | 3 |
| Diisopropyl ether | 14 | ND | ND | ND | ND | ND |
| Ethanol | 7 | 5 | 11 | 29 | 1 | 3 |
| Ethyl Acetate | 12 | ND | ND | ND | ND | 0.5 J |
| Ethyl tert-butyl ether | ND | ND | ND | 1 | 0.5 J | ND |
| Ethylbenzene | ND | ND | ND | 4 | 0.8 J | 0.9 |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | 4 | 2 | ND | 4 | 7 | 1 J |
| Freon 114 | ND | ND | ND | 3 | 1 J | 1 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | ND | 3 | 0.4 J | 0.5 J |
| Hexachlorobutadiene | ND | ND | ND | ND | 1 J | 1 J |
| Hexane | 30 | 2 | 2 | 18 | 2 | 0.8 |
| iso-Octane | ND | ND | ND | 4 | 0.7 J | 0.6 J |
| Isopropylbenzene | ND | ND | ND | 2 | 0.5 J | 0.6 J |
| Isopropyl alcohol | 9 | 1 | 4 | 9 | 1 | 0.9 |
| m,p-Xylene | NR | NR | NR | NR | NR | NR |
| Methyl Methacrylate | ND | ND | ND | 2 | 0.4 J | 3 |
| Methyl-tert-Butyl-Ether | 4 | ND | ND | 5 | 0.7 | 0.4 J |
| Methylene Chloride | 150 | 7 | 4 | 84 | 8 | 2 |
| MBK | ND | ND | ND | 4 | 0.5 J | 0.5 J |
| Naphthalene | ND | ND | ND | 3 | 0.8 J | 0.9 J |
| n-Butane | ND | 20 | 7 | 8 | 0.6 | ND |
| o-Xylene | NR | NR | NR | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | ND | 2 J | 0.6 J | ND |
| n-Propylbenzene | ND | ND | ND | 2 | 0.7 J | 0.8 J |
| Propylene | ND | ND | ND | ND | ND | 0.4 |
| Styrene | ND | ND | ND | 1 | ND | ND |
| tert-Amyl methyl ether | ND | ND | ND | 2 | 0.5 J | 0.5 J |
| tert-Butyl Alcohol | ND | ND | ND | 2 | 0.5 J | 0.5 J |
| Tetrachloroethene | ND | 4 | ND | 26 | 210 | 2 |
| Tetrahydrofuran | ND | ND | ND | 7 | 1 | 1 |
| Toluene | ND | 2 | 3 | 12 | 0.9 | 1 |
| Total Xylenes | ND | ND | ND | 18 | 3 | 4 |
| trans-1,2-Dichloroethene | ND | ND | ND | 2 | 0.6 J | 0.4 J |
| trans-1,3-Dichloropropene | ND | ND | ND | 2 | ND | ND |
| Trichloroethene | 3 | 1 | ND | 3 | 120 | 1 J |
| Trichlorofluoromethane | ND | 2 | ND | 4 | 3 | 2 |
| Vinyl Acetate | ND | 1 | ND | ND | 0.6 J | ND |
| Vinyl Bromide | ND | ND | ND | 2 | 0.6 J | 0.6 J |
| Vinyl Chloride | ND | ND | ND | 1 | 0.4 J | 0.3 J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE102I | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/22/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | 3 | ND | NA | 2 | 3 | 2 |
| 1,1,2-Tetrachloroethane | ND | ND | NA | 1 J | 0.8 J | 0.8 J |
| 1,1,2-Trichloroethane | ND | ND | NA | 1 J | 0.6 J | 0.6 J |
| 1,1-Dichloroethane | ND | ND | NA | 0.8 J | 0.5 J | 0.5 J |
| 1,1-Dichloroethene | ND | ND | NA | 0.7 J | 0.4 J | 0.4 J |
| 1,2,3-Trichloropropane | ND | ND | NA | 1 J | 0.6 J | 0.8 J |
| 1,2,3-Trimethylbenzene | 10 | ND | NA | 5 | 1 | 2 |
| 1,2,4-Trichlorobenzene | ND | ND | NA | 1 J | ND | ND |
| 1,2,4-Trimethylbenzene | 35 | 1 | NA | 18 | 3 | 5 |
| 1,2-Dibromoethane | ND | ND | NA | 1 J | ND | 0.8 J |
| 1,2-Dichlorobenzene | ND | ND | NA | 0.8 J | ND | ND |
| 1,2-Dichloroethane | ND | ND | NA | 0.8 | 0.4 J | 0.4 J |
| 1,2-Dichloropropane | ND | ND | NA | 0.9 J | 0.6 J | 0.6 J |
| 1,3,5-Trimethylbenzene | 7 | ND | NA | 4 | 0.8 J | 1 |
| 1,3-Butadiene | ND | ND | NA | NA | 0.3 J | ND |
| 1,3-Dichlorobenzene | ND | ND | NA | 0.7 J | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | NA | 0.6 J | ND | ND |
| 1,4-Dioxane | ND | ND | NA | 0.8 | ND | 0.4 J |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | ND | 1 | NA | 4 | 1 | 2 |
| 2-Hexanone | ND | ND | NA | 0.9 | 0.6 J | 0.5 J |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | NA | 0.6 J | ND | ND |
| 4-Ethyltoluene | 5 | ND | NA | 4 | 0.8 J | 1 |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 6 | 5 | NA | 14 | 4 | 7 |
| alpha-Chlorotoluene | ND | ND | NA | 0.7 J | ND | ND |
| Acrylonitrile | ND | ND | NA | 0.5 | 0.4 J | ND |
| Benzene | ND | ND | NA | 1 | 0.4 J | 0.5 J |
| Benzyl Chloride | ND | ND | NA | ND | ND | ND |
| Bromodichloromethane | ND | ND | NA | 2 | 0.8 J | 0.7 J |
| Bromoform | ND | ND | NA | 1 J | ND | 1 J |
| Bromomethane | ND | ND | NA | 0.8 | 0.5 J | 0.5 J |
| Carbon Disulfide | ND | ND | NA | 0.7 | 0.5 J | 0.4 J |
| Carbon Tetrachloride | ND | ND | NA | 2 | 1 J | 1 J |
| Chlorobenzene | ND | ND | NA | 0.9 | ND | 0.5 J |
| Chlorodibromomethane | ND | ND | NA | 1 J | ND | 0.9 J |
| Chloroethane | ND | ND | NA | 0.6 | 0.4 J | 0.3 J |
| Chloroform | 4 | ND | NA | 3 | 5 | 4 |
| Chloromethane | ND | 0.9 | NA | 1 | 0.4 | 0.4 |
| cis-1,2-Dichloroethene | ND | ND | NA | 0.7 J | 0.5 J | 0.5 J |
| cis-1,3-Dichloropropene | ND | ND | NA | 0.7 J | ND | ND |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | NA | 0.6 J | ND | 0.4 J |
| Dichlorodifluoromethane | ND | 2 | NA | 3 | 2 | 2 |
| Diisopropyl ether | ND | ND | NA | NA | ND | ND |
| Ethanol | 2 | 3 | NA | 8 | 2 | 4 |
| Ethyl Acetate | ND | ND | NA | NA | ND | ND |
| Ethyl tert-butyl ether | ND | ND | NA | 0.7 J | ND | ND |
| Ethylbenzene | 3 | ND | NA | 4 | 0.8 J | 1 |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | ND | ND | NA | 2 | 1 J | 1 J |
| Freon 114 | ND | ND | NA | 2 | 1 J | 1 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | NA | 1 | ND | 0.5 J |
| Hexachlorobutadiene | ND | ND | NA | 3 | 1 J | 1 J |
| Hexane | ND | 1 | NA | 1 | 0.8 | 0.8 |
| iso-Octane | ND | ND | NA | 1 | 0.6 J | 0.6 J |
| Isopropylbenzene | ND | ND | NA | 1 | ND | 0.6 J |
| Isopropyl alcohol | ND | 0.6 | NA | 2 | 1 | 0.8 |
| m,p-Xylene | NR | NR | NA | NR | NR | NR |
| Methyl Methacrylate | ND | ND | NA | 0.6 J | ND | ND |
| Methyl-tert-Butyl-Ether | ND | ND | NA | 0.7 | 0.5 J | 0.4 J |
| Methylene Chloride | ND | 6 | NA | 4 | 3 | 3 |
| MBK | ND | ND | NA | 0.8 J | ND | ND |
| Naphthalene | 3 | ND | NA | 5 | 0.8 J | 1 |
| n-Butane | 4 | 2 | NA | 1 | 0.4 J | ND |
| o-Xylene | NR | NR | NA | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | NA | 1 J | ND | ND |
| n-Propylbenzene | 3 | ND | NA | 2 | 0.6 J | 0.9 J |
| Propylene | ND | ND | NA | ND | ND | ND |
| Styrene | ND | ND | NA | 0.7 J | ND | ND |
| tert-Amyl methyl ether | ND | ND | NA | 0.7 J | ND | 0.4 J |
| tert-Butyl Alcohol | ND | ND | NA | 1 | 0.5 J | 0.5 J |
| Tetrachloroethene | 6 | NR | NA | 3 | 6 | 6 |
| Tetrahydrofuran | 6 | 0.6 | NA | 5 | 1 | 1 |
| Toluene | 3 | 1 | NA | 4 | 0.8 | 1 |
| Total Xylenes | 22 | ND | NA | 20 | 3 | 6 |
| trans-1,2-Dichloroethene | ND | ND | NA | 0.7 J | 0.4 J | 0.4 J |
| trans-1,3-Dichloropropene | ND | ND | NA | 0.7 J | ND | ND |
| Trichloroethene | 88 | 3 | NA | 34 | 76 | 52 |
| Trichlorofluoromethane | ND | 1 | NA | 2 | 2 | 2 |
| Vinyl Acetate | ND | ND | NA | ND | 0.6 J | ND |
| Vinyl Bromide | ND | ND | NA | 1 | 0.6 J | 0.6 J |
| Vinyl Chloride | ND | ND | NA | 0.5 J | 0.4 J | 0.3 J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE102D | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/08/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | 7 | 2 | 2 | 6 | 4 | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | 1 J | 0.9 J | 1 J |
| 1,1,2-Trichloroethane | ND | ND | ND | 1 J | 0.6 J | 0.8 J |
| 1,1-Dichloroethane | ND | ND | ND | 1 | 0.6 J | 0.7 J |
| 1,1-Dichloroethene | ND | ND | ND | 1 | 0.6 J | 0.6 J |
| 1,2,3-Trichloropropane | ND | ND | ND | ND | 0.7 J | 0.9 J |
| 1,2,3-Trimethylbenzene | 5 | ND | ND | 7 | 1 | 2 |
| 1,2,4-Trichlorobenzene | ND | ND | ND | 2 J | ND | 0.8 J |
| 1,2,4-Trimethylbenzene | 18 | 2 | 2 | 22 | 4 | 6 |
| 1,2-Dibromoethane | ND | ND | ND | 1 J | ND | 1 J |
| 1,2-Dichlorobenzene | ND | ND | ND | 1 J | ND | 0.8 J |
| 1,2-Dichloroethane | ND | ND | ND | 0.9 | 0.5 J | 0.5 J |
| 1,2-Dichloropropane | ND | ND | ND | 1 | 0.6 J | 0.6 J |
| 1,3,5-Trimethylbenzene | 4 | ND | ND | 4 | ND | 1 |
| 1,3-Butadiene | 1 | ND | ND | ND | 0.3 J | 0.4 J |
| 1,3-Dichlorobenzene | ND | ND | ND | 0.8 J | ND | 0.7 J |
| 1,4-Dichlorobenzene | ND | ND | ND | 0.8 J | ND | 0.6 J |
| 1,4-Dioxane | ND | ND | ND | 1 | ND | 0.6 J |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | 4 | 0.9 | 0.7 | 5 | 1 | 1 |
| 2-Hexanone | ND | ND | ND | 0.9 J | 0.6 J | 0.6 J |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | ND | 0.7 J | 0.4 J | ND |
| 4-Ethyltoluene | 3 | ND | ND | 4 | 1 | 1 |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 10 | 8 | 6 | 12 | 4 | 4 |
| alpha-Chlorotoluene | ND | ND | ND | 0.9 J | ND | 0.6 J |
| Acrylonitrile | ND | ND | ND | 0.5 | 0.4 J | ND |
| Benzene | ND | ND | ND | 1 | 0.5 J | 0.9 |
| Benzyl Chloride | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | 2 | 0.9 J | 1 J |
| Bromoform | ND | ND | ND | 2 J | ND | 1 J |
| Bromomethane | ND | ND | ND | 1 | 0.6 J | 0.5 J |
| Carbon Disulfide | ND | ND | ND | 0.9 | 0.5 J | 0.5 J |
| Carbon Tetrachloride | ND | ND | ND | 2 | 2 | 2 |
| Chlorobenzene | ND | ND | ND | 1 J | ND | 0.7 J |
| Chlorodibromomethane | ND | ND | ND | 2 J | 0.9 J | 1 J |
| Chloroethane | ND | ND | ND | 0.7 | 0.4 J | 0.4 J |
| Chloroform | 11 | 2 | 3 | 9 | 14 | 17 |
| Chlormethane | ND | 1 | 0.6 | 1 | 0.4 | 0.4 |
| cis-1,2-Dichloroethene | ND | 0.9 | ND | 1 | 0.5 J | 0.9 |
| cis-1,3-Dichloropropene | ND | ND | ND | 0.9 J | ND | 0.6 J |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | ND | 0.7 J | 0.5 J | 0.4 J |
| Dichlorodifluoromethane | 2 | 3 | 2 | 4 | 3 | 3 |
| Diisopropyl ether | ND | ND | ND | ND | ND | ND |
| Ethanol | 5 | 3 | 4 | 3 | 1 | 1 |
| Ethyl Acetate | ND | ND | ND | ND | ND | ND |
| Ethyl tert-butyl ether | ND | ND | ND | 0.8 J | 0.4 J | 0.5 J |
| Ethylbenzene | 3 | ND | ND | 4 | ND | 1 |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | ND | ND | ND | 3 | 2 | 2 |
| Freon 114 | ND | ND | ND | 2 | 1 J | 1 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | ND | 1 | 0.4 J | 0.6 J |
| Hexachlorobutadiene | ND | ND | ND | 3 | 1 J | 2 J |
| Hexane | 1 | ND | ND | 1 | 0.8 | 0.5 J |
| iso-Octane | ND | ND | ND | 1 | 1 | 0.7 J |
| Isopropylbenzene | ND | ND | ND | 1 | 0.5 J | 0.8 J |
| Isopropyl alcohol | 1 | ND | ND | 2 | 1 | 1 |
| m,p-Xylene | NR | NR | NR | NR | NR | NR |
| Methyl Methacrylate | ND | ND | ND | 0.8 J | 0.4 J | 0.4 J |
| Methyl-tert-Butyl-Ether | ND | ND | ND | 0.9 | 0.5 J | 0.4 J |
| Methylene Chloride | 7 | 2 | ND | 4 | 2 | 0.9 |
| MBK | ND | ND | ND | 1 | 0.4 J | 0.4 J |
| Naphthalene | 3 | ND | ND | 6 | 3 | 2 |
| n-Butane | ND | 2 | ND | 2 | 2 | ND |
| o-Xylene | NR | NR | NR | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | ND | 1 | ND | 0.7 J |
| n-Propylbenzene | ND | ND | ND | 3 | 0.7 J | 1 |
| Propylene | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | 0.8 J | ND | 0.5 J |
| tert-Amyl methyl ether | ND | ND | ND | 0.9 J | 0.5 J | 0.5 J |
| tert-Butyl Alcohol | ND | ND | ND | 1 | 0.4 J | 0.6 |
| Tetrachloroethene | 19 | 3 | 9 | 25 | 23 | 39 |
| Tetrahydrofuran | 36 | 7 | 3 | 6 | 1 | 1 |
| Toluene | 3 | ND | ND | 4 | 0.8 | 2 |
| Total Xylenes | 15 | ND | ND | 22 | 2 J | 7 |
| trans-1,2-Dichloroethene | ND | ND | ND | 1 | 0.5 J | 0.5 J |
| trans-1,3-Dichloropropene | ND | ND | ND | 0.8 J | ND | 0.5 J |
| Trichloroethene | 110 | 17 | 21 | 89 | 81 | 87 |
| Trichlorofluoromethane | 5 | 2 | 6 | 9 | 12 | 13 |
| Vinyl Acetate | ND | ND | ND | 2 | ND | ND |
| Vinyl Bromide | ND | ND | ND | 1 | 0.6 J | 0.6 J |
| Vinyl Chloride | ND | ND | ND | 0.6 | 0.4 J | 0.3 J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE103I | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/08/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | ND | ND | ND | 0.9 J | 6 | 6 |
| 1,1,2-Tetrachloroethane | ND | ND | ND | 1 J | 0.9 J | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | 0.7 J | 0.7 J | ND |
| 1,1-Dichloroethane | ND | ND | ND | 0.6 J | 2 | 2 |
| 1,1-Dichloroethene | ND | ND | ND | 0.6 J | 0.6 J | ND |
| 1,2,3-Trichloropropane | ND | ND | ND | 0.9 J | 0.8 J | 0.6 J |
| 1,2,3-Trimethylbenzene | ND | ND | ND | 4 | 1 | 2 |
| 1,2,4-Trichlorobenzene | ND | ND | ND | 1 J | ND | ND |
| 1,2,4-Trimethylbenzene | 2 | ND | 1 | 14 | 3 | 5 |
| 1,2-Dibromoethane | ND | ND | ND | 0.9 J | 0.8 J | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | 0.7 J | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | 0.7 J | 0.5 J | ND |
| 1,2-Dichloropropane | ND | ND | ND | 0.7 J | 0.6 J | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | 2 | 0.9 J | 1 |
| 1,3-Butadiene | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | ND |
| 1,4-Dioxane | ND | ND | ND | 0.5 J | 0.6 J | 0.4 J |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | 2 | ND | ND | 4 | 1 | 1 |
| 2-Hexanone | ND | ND | ND | 0.6 J | 0.5 J | ND |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | ND | 0.4 J | 0.4 J | ND |
| 4-Ethyltoluene | ND | ND | ND | 3 | 0.8 J | 1 |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 13 | 6 | 6 | 17 | 4 | 3 |
| alpha-Chlorotoluene | ND | ND | ND | 0.6 J | ND | ND |
| Acrylonitrile | ND | ND | ND | 0.4 J | 0.4 J | ND |
| Benzene | 2 | ND | ND | 1 | 0.6 J | 0.5 J |
| Benzyl Chloride | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | 1 J | 0.8 J | ND |
| Bromoform | ND | ND | ND | 1 J | 1 J | ND |
| Bromomethane | ND | ND | ND | 0.6 J | 0.6 J | 0.4 J |
| Carbon Disulfide | ND | ND | ND | 0.6 J | 0.6 J | 0.5 J |
| Carbon Tetrachloride | ND | ND | ND | 1 | 1 J | 0.9 J |
| Chlorobenzene | ND | ND | ND | 0.6 J | 0.5 J | 0.5 J |
| Chlorodibromomethane | ND | ND | ND | 1 J | 0.9 J | ND |
| Chloroethane | ND | ND | ND | 0.5 J | 0.5 J | 0.3 J |
| Chloroform | ND | ND | ND | 0.8 J | 3 | 2 |
| Chloromethane | 1 | 1 | 1 | 1 | 0.4 | 0.4 J |
| cis-1,2-Dichloroethene | 1 | ND | 1 | 0.5 J | 16 | 12 |
| cis-1,3-Dichloropropene | ND | ND | ND | 0.5 J | ND | ND |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | 1 | ND | ND | 0.8 | 0.5 J | ND |
| Dichlorodifluoromethane | 3 | 2 | 2 | 3 | 2 | 2 |
| Diisopropyl ether | 3 | ND | ND | ND | ND | ND |
| Ethanol | 17 | 3 | 6 | 14 | 2 | 1 |
| Ethyl Acetate | 3 | ND | ND | ND | ND | ND |
| Ethyl tert-butyl ether | ND | ND | ND | 0.6 J | 0.5 J | ND |
| Ethylbenzene | 1 | ND | ND | 3 | 0.8 J | 1 |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | ND | ND | ND | 2 | 2 | 1 J |
| Freon 114 | ND | ND | ND | 1 J | 1 J | 0.8 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | 2 | ND | ND | 1 | 0.5 J | ND |
| Hexachlorobutadiene | ND | ND | ND | 2 J | 1 J | 1 J |
| Hexane | 6 | ND | ND | 3 | 1 | 0.6 J |
| iso-Octane | 2 | ND | ND | 1 | 0.7 J | 0.5 J |
| Isopropylbenzene | ND | ND | ND | 0.8 J | 0.6 J | ND |
| Isopropyl alcohol | 4 | ND | 3 | 2 | 1 | 0.5 J |
| m,p-Xylene | NR | NR | NR | NR | NR | NR |
| Methyl Methacrylate | ND | ND | ND | 0.5 J | 0.4 J | ND |
| Methyl-tert-Butyl-Ether | 1 | ND | ND | 0.7 J | 0.7 J | 0.6 J |
| Methylene Chloride | 29 | ND | 2 | 8 | 4 | 1 |
| MBK | ND | ND | ND | ND | 0.5 J | ND |
| Naphthalene | ND | ND | ND | 7 | 0.9 J | 2 |
| n-Butane | 3 | 1 | 1 | 3 | 0.6 | ND |
| o-Xylene | NR | NR | NR | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | ND | 0.9 J | 0.6 J | ND |
| n-Propylbenzene | ND | ND | ND | 2 | 0.7 J | 0.9 J |
| Propylene | ND | ND | ND | 2 | ND | ND |
| Styrene | ND | ND | ND | 0.6 J | ND | ND |
| tert-Amyl methyl ether | ND | ND | ND | 0.6 J | 0.5 J | ND |
| tert-Butyl Alcohol | ND | ND | ND | 0.8 | 0.7 | 0.9 |
| Tetrachloroethene | ND | ND | 2 | 1 J | 420 | 590 |
| Tetrahydrofuran | 1 | ND | ND | 4 | 1 | 1 |
| Toluene | 6 | ND | 1 | 6 | 0.9 | 1 |
| Total Xylenes | 6 | ND | ND | 15 | 3 | 5 |
| trans-1,2-Dichloroethene | ND | ND | ND | 0.6 J | 1 | 1 |
| trans-1,3-Dichloropropene | ND | ND | ND | 0.5 J | ND | ND |
| Trichloroethene | ND | ND | ND | 0.9 J | 100 | 97 |
| Trichlorofluoromethane | 2 | ND | 1 | 2 | 2 | 2 |
| Vinyl Acetate | 3 | ND | ND | ND | ND | ND |
| Vinyl Bromide | ND | ND | ND | 0.7 J | 0.7 J | ND |
| Vinyl Chloride | ND | ND | ND | 0.4 J | 0.4 J | 0.3 J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE103D | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/08/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | ND | 13 | ND | 2 J | 20 | 31 |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | 2 J | 2 J | 12 J |
| 1,1,2-Trichloroethane | ND | ND | ND | 1 J | 2 J | 10 J |
| 1,1-Dichloroethane | ND | 2 | 2 | 1 J | 4 | 9 |
| 1,1-Dichloroethene | ND | ND | ND | 1 J | 2 | 6 J |
| 1,2,3-Trichloropropane | ND | ND | ND | 2 J | 2 J | 11 J |
| 1,2,3-Trimethylbenzene | 5 | ND | 2 | 4 | ND | 7 J |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND | 9 J |
| 1,2,4-Trimethylbenzene | 8 | 2 | 7 | 12 | ND | 9 J |
| 1,2-Dibromoethane | ND | ND | ND | 2 J | 2 J | 11 J |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | 9 J |
| 1,2-Dichloroethane | ND | ND | ND | 1 J | 1 J | 6 J |
| 1,2-Dichloropropane | ND | ND | ND | 1 J | 1 J | 8 J |
| 1,3,5-Trimethylbenzene | ND | ND | 2 | 3 | ND | 8 J |
| 1,3-Butadiene | ND | ND | ND | 1 | 0.8 J | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND | 8 J |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | 8 J |
| 1,4-Dioxane | ND | ND | ND | 0.9 J | 1 | 6 J |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | 4 | 1 | 4 | 5 | 2 | 6 J |
| 2-Hexanone | ND | ND | ND | 1 J | 1 J | 5 J |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | ND | 0.8 J | 1 J | 4 J |
| 4-Ethyltoluene | ND | ND | ND | 3 | ND | 8 J |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 10 | 6 | 21 | 19 | 9 | 10 |
| alpha-Chlorotoluene | ND | ND | ND | ND | ND | 8 J |
| Acrylonitrile | ND | ND | ND | 0.5 J | 0.8 J | ND |
| Benzene | ND | ND | 12 | 1 | 1 J | 6 J |
| Benzyl Chloride | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | 2 J | 2 J | ND |
| Bromoform | ND | ND | ND | ND | 2 J | 14 J |
| Bromomethane | ND | ND | ND | 1 J | 1 J | 6 J |
| Carbon Disulfide | ND | ND | ND | 1 J | 1 J | 6 J |
| Carbon Tetrachloride | ND | ND | ND | 2 J | 2 J | 12 J |
| Chlorobenzene | ND | ND | ND | 1 J | 1 J | 8 J |
| Chlorodibromomethane | ND | ND | ND | 2 J | 2 J | 14 J |
| Chloroethane | ND | ND | ND | 0.9 J | 1 J | 5 J |
| Chloroform | ND | 1 | ND | 1 J | 6 | 29 |
| Chloromethane | 3 | 0.7 | 1 | 2 | 0.9 | 4 J |
| cis-1,2-Dichloroethene | ND | 92 | ND | 1 J | 360 | 160 |
| cis-1,3-Dichloropropene | ND | ND | ND | ND | 1 J | 6 J |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | 5 | 1 J | 0.9 J | 5 J |
| Dichlorodifluoromethane | 6 | 2 | 2 | 4 | 3 | 10 |
| Diisopropyl ether | 5 | ND | ND | ND | 1 J | 6 J |
| Ethanol | 6 | 5 | 56 | 10 | 2 | 9 |
| Ethyl Acetate | 5 | ND | ND | ND | ND | ND |
| Ethyl tert-butyl ether | ND | ND | ND | 1 J | 1 J | 5 J |
| Ethylbenzene | ND | ND | 8 | 3 | 0.9 J | 7 J |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | ND | 10 | 10 | 3 J | 12 | 20 |
| Freon 114 | ND | ND | ND | 2 J | 2 J | 12 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | 8 | 1 J | 1 J | 5 J |
| Hexachlorobutadiene | ND | ND | ND | 4 J | 3 J | 18 J |
| Hexane | 3 | 1 | 20 | 2 | 3 | 6 J |
| iso-Octane | ND | ND | ND | 1 J | 1 J | 8 J |
| Isopropylbenzene | ND | ND | ND | 1 J | 1 J | 8 J |
| Isopropyl alcohol | 5 | ND | 5 | 2 | 2 | 5 J |
| m,p-Xylene | NR | NR | NR | NR | NR | NR |
| Methyl Methacrylate | ND | ND | ND | 1 J | 1 J | 5 J |
| Methyl-tert-Butyl-Ether | ND | ND | ND | 1 J | 2 | 6 J |
| Methylene Chloride | 7 | 3 | 4 | 4 | 19 | 11 |
| MBK | ND | ND | ND | 1 J | 1 J | 6 J |
| Naphthalene | ND | ND | ND | 3 | ND | 5 J |
| n-Butane | 2 | 2 | 67 | 2 | 2 | ND |
| o-Xylene | NR | NR | NR | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | ND | 1 J | ND | 7 J |
| n-Propylbenzene | ND | ND | 1 | 2 | ND | 6 J |
| Propylene | ND | ND | 9 | 2 | ND | ND |
| Styrene | ND | ND | ND | ND | ND | 5 J |
| tert-Amyl methyl ether | ND | ND | ND | 1 J | 1 J | 6 J |
| tert-Butyl Alcohol | 3 | ND | ND | 1 J | 0.9 J | 5 J |
| Tetrachloroethene | 9 | 1500 | ND | 3 | 1600 | 6700 |
| Tetrahydrofuran | 4 | 1 | ND | 6 | 2 | 6 |
| Toluene | 4 | 2 | 40 | 4 | 0.9 J | 6 J |
| Total Xylenes | ND | ND | 34 | 16 | 3 J | 21 J |
| trans-1,2-Dichloroethene | ND | 1 | ND | 1 J | 3 | 7 J |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | 5 J |
| Trichloroethene | 7 | 92 | ND | 2 J | 290 | 240 |
| Trichlorofluoromethane | 6 | 1 | 3 | 3 | 3 | 11 |
| Vinyl Acetate | 4 | ND | ND | ND | ND | ND |
| Vinyl Bromide | ND | ND | ND | 2 J | 1 J | 8 J |
| Vinyl Chloride | ND | 2 | ND | 0.8 J | 4 | 5 J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE104I | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/08/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | 4 | NR | NA | 1 J | 4 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | ND | NA | 1 J | 0.7 J | ND |
| 1,1,2-Trichloroethane | ND | ND | NA | 1 J | ND | ND |
| 1,1-Dichloroethane | ND | ND | NA | 1 J | 0.6 J | 0.5 J |
| 1,1-Dichloroethene | ND | ND | NA | 1 J | ND | ND |
| 1,2,3-Trichloropropane | ND | ND | NA | 1 J | ND | ND |
| 1,2,3-Trimethylbenzene | 4 | ND | NA | ND | ND | 0.7 J |
| 1,2,4-Trichlorobenzene | ND | ND | NA | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 12 | 1 | NA | ND | ND | 2 |
| 1,2-Dibromoethane | ND | ND | NA | 2 J | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | NA | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | NA | 1 J | ND | ND |
| 1,2-Dichloropropane | ND | ND | NA | 1 J | ND | ND |
| 1,3,5-Trimethylbenzene | 3 | ND | NA | ND | ND | 0.5 J |
| 1,3-Butadiene | ND | ND | NA | 1 | 0.4 J | ND |
| 1,3-Dichlorobenzene | ND | ND | NA | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | NA | ND | ND | ND |
| 1,4-Dioxane | ND | ND | NA | 0.8 J | 0.4 J | ND |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | 3 | 0.6 | NA | 3 | 1 | 0.8 |
| 2-Hexanone | ND | ND | NA | 0.9 J | ND | ND |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | NA | 0.9 | 0.3 J | ND |
| 4-Ethyltoluene | 2 | ND | NA | ND | ND | ND |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 11 | 3 | NA | 21 | 5 | 5 |
| alpha-Chlorotoluene | ND | ND | NA | ND | ND | ND |
| Acrylonitrile | ND | ND | NA | 0.6 J | 0.3 J | ND |
| Benzene | 1 | ND | NA | 1 J | 0.4 J | 0.4 J |
| Benzyl Chloride | ND | ND | NA | ND | ND | ND |
| Bromodichloromethane | ND | ND | NA | 2 J | 0.8 J | ND |
| Bromoform | ND | ND | NA | ND | ND | ND |
| Bromomethane | ND | ND | NA | 1 J | 0.4 J | ND |
| Carbon Disulfide | ND | ND | NA | 1 J | 0.5 J | 0.5 J |
| Carbon Tetrachloride | ND | ND | NA | 2 J | 1 J | 1 J |
| Chlorobenzene | ND | ND | NA | 1 J | 0.5 J | ND |
| Chlorodibromomethane | ND | ND | NA | 2 J | ND | ND |
| Chloroethane | ND | ND | NA | 0.9 J | 0.3 J | ND |
| Chloroform | 2 | ND | NA | 1 J | 3 | 1 |
| Chlormethane | ND | 0.5 | NA | 2 | 0.5 | 0.8 |
| cis-1,2-Dichloroethene | 2 | 0.8 | NA | 0.9 J | 2 | 3 |
| cis-1,3-Dichloropropene | ND | ND | NA | 1 J | ND | ND |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | 0.8 | ND | NA | 1 J | ND | ND |
| Dichlorodifluoromethane | 2 | 2 | NA | 3 | 2 | 2 |
| Diisopropyl ether | 5 | ND | NA | ND | ND | ND |
| Ethanol | 19 | 1 | NA | 12 | 2 | 3 |
| Ethyl Acetate | 5 | ND | NA | ND | ND | ND |
| Ethyl tert-butyl ether | ND | ND | NA | 1 J | ND | ND |
| Ethylbenzene | 2 | ND | NA | 1 J | 0.6 J | 0.6 J |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | ND | ND | NA | 3 J | 2 | 2 |
| Freon 114 | ND | ND | NA | 2 J | 0.9 J | 0.7 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | 1 | ND | NA | 1 J | ND | ND |
| Hexachlorobutadiene | ND | ND | NA | 2 J | ND | ND |
| Hexane | 10 | ND | NA | 12 | 0.5 J | 0.4 J |
| iso-Octane | ND | ND | NA | 1 J | 0.5 J | 0.5 J |
| Isopropylbenzene | ND | ND | NA | 1 J | ND | ND |
| Isopropyl alcohol | 6 | ND | NA | 7 | 0.7 | 0.5 |
| m,p-Xylene | NR | NR | NA | NR | NR | NR |
| Methyl Methacrylate | ND | ND | NA | 0.9 J | ND | ND |
| Methyl-tert-Butyl-Ether | 1 | ND | NA | 4 | ND | ND |
| Methylene Chloride | 51 | ND | NA | 65 | 1 | 0.9 |
| MBK | ND | ND | NA | 1 J | ND | ND |
| Naphthalene | ND | ND | NA | ND | ND | 0.7 J |
| n-Butane | 2 | 0.6 | NA | 2 | 0.5 J | ND |
| o-Xylene | NR | NR | NA | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | NA | ND | ND | ND |
| n-Propylbenzene | 1 | ND | NA | ND | ND | ND |
| Propylene | ND | ND | NA | ND | ND | 0.4 |
| Styrene | ND | ND | NA | ND | ND | ND |
| tert-Amyl methyl ether | ND | ND | NA | 1 J | ND | ND |
| tert-Butyl Alcohol | ND | ND | NA | 0.9 J | 0.3 J | 0.3 J |
| Tetrachloroethene | 96 | 16 | NA | 2 J | 54 | 33 |
| Tetrahydrofuran | 4 | 1 | NA | 1 | 1 | 0.8 |
| Toluene | 7 | ND | NA | 2 | 1 | 0.6 J |
| Total Xylenes | 12 | ND | NA | 3 J | 3 | 2 J |
| trans-1,2-Dichloroethene | ND | ND | NA | 1 J | 0.5 J | 0.4 J |
| trans-1,3-Dichloropropene | ND | ND | NA | ND | ND | ND |
| Trichloroethene | 72 | 12 | NA | 2 J | 44 | 25 |
| Trichlorofluoromethane | 2 | ND | NA | 3 | 2 | 2 |
| Vinyl Acetate | 2 | ND | NA | ND | ND | 0.5 J |
| Vinyl Bromide | ND | ND | NA | 1 J | 0.5 J | ND |
| Vinyl Chloride | ND | ND | NA | 0.7 J | 0.3 J | 0.3 J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE104D | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/22/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | ND | 270 | ND | 370 | 620 | 440 |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | 1 J | ND | 9 J |
| 1,1,2-Trichloroethane | ND | ND | ND | 2 J | 7 J | 7 J |
| 1,1-Dichloroethane | ND | 66 | ND | 56 | 110 | 77 |
| 1,1-Dichloroethene | ND | ND | ND | 3 | 7 J | 7 J |
| 1,2,3-Trichloropropane | ND | ND | ND | 2 J | 7 J | 7 J |
| 1,2,3-Trimethylbenzene | ND | ND | ND | 7 | ND | 6 J |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 3 | ND | ND | 21 | ND | 7 J |
| 1,2-Dibromoethane | ND | ND | ND | 2 J | ND | 9 J |
| 1,2-Dichlorobenzene | ND | ND | ND | 1 J | ND | 7 J |
| 1,2-Dichloroethane | ND | ND | ND | 1 J | 5 J | 5 J |
| 1,2-Dichloropropane | ND | ND | ND | 2 J | 6 J | 5 J |
| 1,3,5-Trimethylbenzene | ND | ND | ND | 4 | ND | 5 J |
| 1,3-Butadiene | ND | ND | ND | ND | 3 J | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | 1 J | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | ND |
| 1,4-Dioxane | ND | ND | ND | 2 | 9 | 4 J |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | ND | ND | ND | 7 | 5 J | 3 J |
| 2-Hexanone | ND | ND | ND | 1 J | 8 | ND |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | ND | 1 J | 4 J | ND |
| 4-Ethyltoluene | ND | ND | ND | 4 | ND | 5 J |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 10 | ND | 6 | 26 | 10 | 8 |
| alpha-Chlorotoluene | ND | ND | ND | 1 J | ND | 5 J |
| Acrylonitrile | ND | ND | ND | 0.8 J | 4 | ND |
| Benzene | ND | ND | ND | 2 | 4 J | 4 J |
| Benzyl Chloride | ND | ND | ND | 1 J | ND | ND |
| Bromodichloromethane | ND | ND | ND | 2 J | 8 J | 7 J |
| Bromoform | ND | ND | ND | 3 J | ND | 11 J |
| Bromomethane | ND | ND | ND | 1 J | 6 J | 5 J |
| Carbon Disulfide | ND | ND | ND | 1 | 5 J | 4 J |
| Carbon Tetrachloride | ND | ND | ND | 3 | 9 J | 8 J |
| Chlorobenzene | ND | ND | ND | 1 J | ND | 5 J |
| Chlorodibromomethane | ND | ND | ND | 2 J | 9 J | 10 J |
| Chloroethane | ND | ND | ND | 1 J | 4 J | 4 J |
| Chloroform | ND | ND | ND | 3 | 10 | 9 J |
| Chloromethane | 0.9 | ND | ND | 2 | 3 J | 3 J |
| cis-1,2-Dichloroethene | ND | 1200 | ND | 1000 | 3600 | 2100 |
| cis-1,3-Dichloropropene | ND | ND | ND | 1 J | ND | ND |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | ND | 2 | 4 J | ND |
| Dichlorodifluoromethane | 2 | ND | ND | 4 | 9 J | 8 J |
| Diisopropyl ether | ND | ND | ND | ND | ND | ND |
| Ethanol | 4 | 4 | 6 | 20 | 10 | ND |
| Ethyl Acetate | ND | ND | ND | ND | 6 J | ND |
| Ethyl tert-butyl ether | ND | ND | ND | 1 J | 4 J | ND |
| Ethylbenzene | ND | ND | ND | 4 | ND | 5 J |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | ND | 560 | 560 | 280 | 260 | 550 |
| Freon 114 | ND | ND | ND | 2 J | 10 J | 9 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | ND | 2 | 5 J | 5 J |
| Hexachlorobutadiene | ND | ND | ND | 5 | ND | 14 J |
| Hexane | 2 | ND | 2 | 7 | 5 J | 4 J |
| iso-Octane | ND | ND | ND | 3 | 7 J | 6 J |
| Isopropylbenzene | ND | ND | ND | 2 J | ND | 6 J |
| Isopropyl alcohol | 1 | ND | ND | 7 | 6 | 4 J |
| m,p-Xylene | NR | NR | NR | NR | NR | NR |
| Methyl Methacrylate | ND | ND | ND | 1 J | 4 J | ND |
| Methyl-tert-Butyl-Ether | ND | ND | ND | 3 | 4 J | 4 J |
| Methylene Chloride | 6 | ND | 14 | 28 | 9 | 6 J |
| MBK | ND | ND | ND | 1 J | 5 J | ND |
| Naphthalene | ND | ND | ND | 7 | ND | 5 J |
| n-Butane | ND | ND | 3 | 5 | 4 J | ND |
| o-Xylene | NR | NR | NR | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | ND | 2 J | ND | ND |
| n-Propylbenzene | ND | ND | ND | 3 | ND | ND |
| Propylene | ND | ND | ND | ND | ND | 3 J |
| Styrene | ND | ND | ND | 1 J | ND | ND |
| tert-Amyl methyl ether | ND | ND | ND | 1 J | 5 J | 4 J |
| tert-Butyl Alcohol | ND | ND | ND | 2 | 4 J | 3 J |
| Tetrachloroethene | ND | 2400 | ND | 1400 | 5800 | 6300 |
| Tetrahydrofuran | ND | ND | ND | 7 | 4 J | 3 J |
| Toluene | ND | ND | ND | 8 | 4 J | 4 J |
| Total Xylenes | ND | ND | ND | 20 | ND | 14 J |
| trans-1,2-Dichloroethene | ND | 13 | ND | 14 | 25 | 22 |
| trans-1,3-Dichloropropene | ND | ND | ND | 1 J | ND | ND |
| Trichloroethene | ND | 470 | ND | 420 | 1600 | 1300 |
| Trichlorofluoromethane | ND | ND | ND | 3 | 9 J | 7 J |
| Vinyl Acetate | ND | ND | ND | ND | 5 J | 4 J |
| Vinyl Bromide | ND | ND | ND | 2 J | 6 J | ND |
| Vinyl Chloride | ND | ND | ND | 2 | 5 | 5 J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE105I | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/08/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | ND | 24 | 1 | 1 J | 21 | 31 |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | 0.8 J | 1 J | 0.9 J |
| 1,1,2-Trichloroethane | ND | ND | ND | 0.7 J | 0.8 J | 0.9 J |
| 1,1-Dichloroethane | ND | 6 | ND | 0.6 J | 5 | 7 |
| 1,1-Dichloroethene | ND | ND | ND | 0.6 J | 0.6 J | 0.5 J |
| 1,2,3-Trichloropropane | ND | ND | ND | 0.7 J | 0.8 J | 0.9 J |
| 1,2,3-Trimethylbenzene | 14 | ND | 1 | 0.7 J | 1 | 2 |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND | 1 J |
| 1,2,4-Trimethylbenzene | 44 | 3 | 4 | 1 | 3 | 7 |
| 1,2-Dibromoethane | ND | ND | ND | 0.9 J | ND | 0.8 J |
| 1,2-Dichlorobenzene | ND | ND | ND | 0.9 J | ND | 0.8 J |
| 1,2-Dichloroethane | ND | ND | ND | 0.7 J | 0.6 J | 0.5 J |
| 1,2-Dichloropropane | ND | ND | ND | 0.7 J | 0.5 J | 0.6 J |
| 1,3,5-Trimethylbenzene | 10 | ND | 1 | 2 | 0.9 J | 1 |
| 1,3-Butadiene | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND | 0.7 J |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | 0.7 J |
| 1,4-Dioxane | ND | ND | ND | 0.7 J | 0.7 J | 0.6 J |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | 4 | 1 | 6 | 6 | 2 | 1 |
| 2-Hexanone | ND | ND | ND | 0.7 J | 0.6 J | 0.4 J |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | ND | 0.4 J | ND | ND |
| 4-Ethyltoluene | 7 | ND | ND | 3 | 0.8 J | 1 |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 11 | 3 | 15 | 27 | 9 | 4 |
| alpha-Chlorotoluene | ND | ND | ND | 0.5 J | ND | 0.7 J |
| Acrylonitrile | ND | ND | ND | 0.3 J | 0.4 J | ND |
| Benzene | ND | ND | 4 | 1 | 0.6 J | 0.6 J |
| Benzyl Chloride | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | 1 J | 1 J | 0.9 J |
| Bromoform | ND | ND | ND | 1 J | 1 J | 1 J |
| Bromomethane | ND | ND | ND | 0.8 | 0.6 J | 0.5 J |
| Carbon Disulfide | ND | ND | ND | 0.9 | 0.6 J | 0.6 J |
| Carbon Tetrachloride | ND | ND | ND | 1 | 1 J | 1 |
| Chlorobenzene | ND | ND | ND | 0.6 J | 0.5 J | 0.6 J |
| Chlorodibromomethane | ND | ND | ND | 1 J | 0.9 J | 1 J |
| Chloroethane | ND | ND | ND | 0.7 | 0.4 J | 0.4 J |
| Chloroform | ND | 2 | ND | 0.9 J | 4 | 3 |
| Chloromethane | 0.9 | ND | ND | 3 | 0.5 | 0.4 |
| cis-1,2-Dichloroethene | ND | ND | ND | 1 | 10 | 16 |
| cis-1,3-Dichloropropene | ND | 13 | ND | 0.5 J | ND | 0.5 J |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | 3 | 0.7 J | 0.6 J | 0.5 J |
| Dichlorodifluoromethane | 2 | 2 | 2 | 3 | 2 | 3 |
| Diisopropyl ether | ND | ND | ND | ND | 0.6 J | ND |
| Ethanol | 5 | 1 | 37 | 19 | 3 | 2 |
| Ethyl Acetate | ND | ND | 2 | ND | ND | ND |
| Ethyl tert-butyl ether | ND | ND | ND | 0.5 J | 0.5 J | 0.4 J |
| Ethylbenzene | 4 | ND | 3 | 3 | 0.9 | 1 |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | ND | 2 | ND | 2 | 3 | 3 |
| Freon 114 | ND | ND | ND | 1 J | 1 J | 1 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | 3 | 3 | 0.5 J | 0.5 J |
| Hexachlorobutadiene | ND | ND | ND | 2 J | 1 J | 2 J |
| Hexane | 2 | ND | 11 | 2 | 1 | 0.5 J |
| iso-Octane | ND | ND | 4 | 1 | 0.7 J | 0.7 J |
| Isopropylbenzene | ND | ND | ND | 0.8 J | 0.6 J | 0.8 J |
| Isopropyl alcohol | ND | ND | 6 | 9 | 2 | 7 |
| m,p-Xylene | NR | NR | NR | NR | NR | NR |
| Methyl Methacrylate | ND | ND | ND | 0.6 J | 0.5 J | 0.4 J |
| Methyl-tert-Butyl-Ether | ND | ND | 1 | 0.7 J | 0.7 J | 0.4 J |
| Methylene Chloride | 6 | 0.8 | 48 | 7 | 5 | 1 |
| MBK | ND | ND | ND | 0.8 J | 0.6 J | 0.5 J |
| Naphthalene | 3 | ND | 1 | 6 | 0.8 J | 8 |
| n-Butane | 0.5 | ND | 23 | 2 | 0.6 | ND |
| o-Xylene | NR | NR | NR | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | ND | 0.9 J | 0.6 J | 0.7 J |
| n-Propylbenzene | 4 | ND | ND | 2 | 0.7 J | 1 |
| Propylene | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | 0.5 J | ND | 0.5 J |
| tert-Amyl methyl ether | ND | ND | ND | 0.5 J | 0.5 J | 0.5 J |
| tert-Butyl Alcohol | 1 | ND | ND | 4 | 0.6 J | 0.4 J |
| Tetrachloroethene | ND | 55 | 5 | 2 | 95 | 100 |
| Tetrahydrofuran | 5 | 2 | ND | 4 | 2 | 2 |
| Toluene | 4 | ND | 14 | 5 | 2 | 1 |
| Total Xylenes | 28 | ND | 11 | 17 | 4 | 6 |
| trans-1,2-Dichloroethene | ND | ND | ND | 0.5 J | 1 | 1 |
| trans-1,3-Dichloropropene | ND | ND | ND | 0.5 J | ND | 0.5 J |
| Trichloroethene | ND | 120 | 7 | 1 | 170 | 200 |
| Trichlorofluoromethane | 1 | 1 | 2 | 2 | 2 | 2 |
| Vinyl Acetate | ND | ND | ND | 3 | ND | ND |
| Vinyl Bromide | ND | ND | ND | 0.7 J | ND | 0.6 J |
| Vinyl Chloride | ND | ND | ND | 0.4 J | 0.4 J | 0.3 J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE105D | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/08/10 | 03/30/11 | 06/28/11 | 09/06/11 | 12/02/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichlorethane | 1000 | 590 | ND | 1 J | 490 | 930 |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | 0.9 J | 8 J | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | 0.8 J | 6 J | ND |
| 1,1-Dichloroethane | 250 | ND | ND | 0.6 J | 74 | 150 |
| 1,1-Dichloroethene | 2 | 4 | 4 | 0.6 J | 6 J | ND |
| 1,2,3-Trichloropropane | ND | ND | ND | 0.9 J | 7 J | ND |
| 1,2,3-Trimethylbenzene | 8 | ND | ND | 3 | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 30 | 4 | 2 | 8 | ND | ND |
| 1,2-Dibromoethane | ND | ND | ND | 1 J | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | 4 | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | 4 | 5 J | ND |
| 1,2-Dichloropropane | ND | ND | ND | 0.7 J | 5 J | ND |
| 1,3,5-Trimethylbenzene | 6 | ND | ND | 2 | ND | ND |
| 1,3-Butadiene | ND | ND | ND | 0.4 | 3 J | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | 0.6 J | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | 0.7 J | ND | ND |
| 1,4-Dioxane | ND | ND | ND | 0.8 | ND | ND |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | 7 | 2 | 2 | 4 | 6 J | ND |
| 2-Hexanone | ND | ND | ND | 0.7 J | 7 J | ND |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | ND | 0.5 J | 3 J | ND |
| 4-Ethyltoluene | 5 | ND | ND | 2 | ND | ND |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 35 | 5 | 11 | 22 | 10 | 5 |
| alpha-Chlorotoluene | ND | ND | ND | 0.7 J | ND | ND |
| Acrylonitrile | ND | ND | ND | 0.4 J | 4 J | ND |
| Benzene | ND | 1 | 3 | 1 | 4 J | ND |
| Benzyl Chloride | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 6 | ND | ND | 1 J | 8 J | ND |
| Bromoform | ND | ND | ND | 1 J | ND | ND |
| Bromomethane | ND | ND | ND | 0.6 J | 6 J | ND |
| Carbon Disulfide | ND | ND | ND | 0.8 | 4 J | ND |
| Carbon Tetrachloride | 3 | 6 | ND | 1 | 10 J | ND |
| Chlorobenzene | ND | ND | ND | 1 | ND | ND |
| Chlorodibromomethane | ND | ND | ND | 1 J | 9 J | ND |
| Chloroethane | 1 | 1 | ND | 0.5 J | 4 J | ND |
| Chloroform | ND | 4 | ND | 0.8 J | 10 J | 3 J |
| Chlormethane | 1 | ND | ND | 2 | 3 J | ND |
| cis-1,2-Dichloroethene | 300 | ND | ND | 0.7 J | 150 | 380 |
| cis-1,3-Dichloropropene | ND | ND | ND | 0.6 J | ND | ND |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | 1 | 0.8 | ND | ND |
| Dichlorodifluoromethane | 2 | 5 | 2 | 3 | 9 J | 3 J |
| Diisopropyl ether | 2 | ND | ND | ND | ND | ND |
| Ethanol | 8 | 2 | 26 | 12 | 10 | 10 |
| Ethyl Acetate | 2 | ND | ND | ND | ND | ND |
| Ethyl tert-butyl ether | ND | ND | ND | 0.6 J | 4 J | ND |
| Ethylbenzene | 4 | ND | 2 | 3 | ND | ND |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | 81 | 89 | ND | 2 | 62 | 40 |
| Freon 114 | ND | ND | ND | 1 J | 10 J | ND |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | 1 | 0.9 | 5 J | ND |
| Hexachlorobutadiene | ND | ND | ND | 2 J | ND | ND |
| Hexane | 5 | 2 | 5 | 2 | 4 J | ND |
| iso-Octane | ND | ND | 2 | 1 | 7 J | ND |
| Isopropylbenzene | ND | ND | ND | 0.8 J | ND | ND |
| Isopropyl alcohol | 2 | ND | 2 | 2 | 6 | ND |
| m,p-Xylene | NR | NR | NR | NR | NR | NR |
| Methyl Methacrylate | ND | ND | ND | 0.7 J | 4 J | ND |
| Methyl-tert-Butyl-Ether | ND | ND | ND | 0.7 J | 4 J | ND |
| Methylene Chloride | 16 | 5 | 2 | 6 | 8 | 3 J |
| MBK | ND | ND | ND | 0.8 J | 5 J | ND |
| Naphthalene | 9 | ND | ND | 4 | ND | ND |
| n-Butane | ND | 2 | 13 | 2 | 4 J | ND |
| o-Xylene | NR | NR | NR | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | ND | 0.8 J | ND | ND |
| n-Propylbenzene | 3 | ND | ND | 1 | ND | ND |
| Propylene | 2 | ND | 1 | ND | ND | ND |
| Styrene | ND | ND | ND | 0.7 J | ND | ND |
| tert-Amyl methyl ether | ND | ND | ND | 0.6 J | 5 J | ND |
| tert-Butyl Alcohol | 3 | ND | ND | 0.9 | 4 J | ND |
| Tetrachloroethene | 270 | 420 | ND | 2 | 240 | 330 |
| Tetrahydrofuran | 6 | 3 | 2 | 3 | 5 J | 2 J |
| Toluene | 3 | 2 | 8 | 14 | 4 J | ND |
| Total Xylenes | 22 | ND | 10 | 20 | ND | ND |
| trans-1,2-Dichloroethene | 3 | ND | ND | 0.6 J | 7 J | 3 J |
| trans-1,3-Dichloropropene | ND | ND | ND | 0.5 J | ND | ND |
| Trichloroethene | 1100 | 1400 | 1 | 2 | 3000 | 7000 |
| Trichlorofluoromethane | ND | 3 | 1 | 2 | 9 J | ND |
| Vinyl Acetate | 2 | ND | ND | ND | 4 J | ND |
| Vinyl Bromide | ND | ND | ND | 0.8 J | 6 J | ND |
| Vinyl Chloride | ND | ND | ND | 0.4 J | 4 J | ND |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE 106I | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/08/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 (µg/m³) | | | | | | |
| 1,1,1-Trichlorethane | 4 | ND | NA | 6 | 3 | 7 |
| 1,1,2,2-Tetrachloroethane | ND | ND | NA | 1J | 0.8J | 1J |
| 1,1,2-Trichloroethane | ND | ND | NA | 0.7J | 0.6J | 0.8J |
| 1,1-Dichloroethane | 1 | ND | NA | 1 | 0.5J | 1 |
| 1,1-Dichloroethene | ND | ND | NA | 0.6J | 2 | 0.6J |
| 1,2,2-Trichloropropane | ND | ND | NA | 0.9J | 0.6J | 0.9J |
| 1,2,3-Trimethylbenzene | 9 | ND | NA | 9 | 1 | 2 |
| 1,2,4-Trichlorobenzene | 2 | ND | NA | 2 | ND | 0.8J |
| 1,2,4-Trimethylbenzene | 29 | ND | NA | 29 | 3 | 6 |
| 1,2-Dibromoethane | ND | ND | NA | 1J | ND | 1J |
| 1,2-Dichlorobenzene | 1 | ND | NA | 0.7J | ND | 0.9J |
| 1,2-Dichloroethane | 0.8 | ND | NA | 0.6J | 0.5J | 0.6J |
| 1,2-Dichloropropane | ND | ND | NA | 0.7J | ND | 0.7J |
| 1,3,5-Trimethylbenzene | 6 | ND | NA | 5 | 0.9J | 1 |
| 1,3-Butadiene | 1 | ND | NA | ND | 2 | 0.6 |
| 1,3-Dichlorobenzene | ND | ND | NA | ND | ND | 0.7J |
| 1,4-Dichlorobenzene | ND | ND | NA | 0.7J | 2 | 0.7J |
| 1,4-Dioxane | ND | ND | NA | 0.7 | 0.5J | 0.6J |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | 4 | ND | NA | 7 | 0.5J | 2 |
| 2-Hexanone | ND | ND | NA | 1 | 0.6J | 0.5J |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | NA | 0.4J | 0.5J | 0.4J |
| 4-Ethyltoluene | 5 | ND | NA | 5 | 1 | 1 |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 5 | 5 | NA | 22 | 11 | 9 |
| alpha-Chlorotoluene | ND | ND | NA | 0.6J | ND | 0.7J |
| Acrylonitrile | 0.4 | ND | NA | 0.4J | 0.4J | ND |
| Benzene | 0.8 | ND | NA | 0.9 | 0.9 | 0.6J |
| Benzyl Chloride | 1 | ND | NA | 0.7J | ND | ND |
| Bromodichloromethane | ND | ND | NA | 0.8J | 0.5J | 1J |
| Bromoform | ND | ND | NA | 1J | 0.3J | 2J |
| Bromomethane | 0.9 | ND | NA | 0.6J | 2 | 0.6J |
| Carbon Disulfide | 0.8 | ND | NA | 0.8 | 0.5J | 0.6 |
| Carbon Tetrachloride | 2 | ND | NA | 1 | ND | 3 |
| Chlorobenzene | ND | ND | NA | 0.7J | 0.3J | 0.7J |
| Chlorodibromomethane | ND | ND | NA | 1J | 1 | 1J |
| Chloroethane | 0.6 | ND | NA | 0.7 | 0.8 | 0.5J |
| Chloroform | 1 | ND | NA | 2 | 0.4J | 2 |
| Chlormethane | 0.8 | 0.8 | NA | 2 | ND | 0.4 |
| cis-1,2-Dichloroethene | 4 | ND | NA | 6 | 0.5J | 4 |
| cis-1,3-Dichloropropene | ND | ND | NA | 0.6J | ND | 0.5J |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | NA | 0.6J | ND | 0.4J |
| Dichlorodifluoromethane | 3 | 2 | NA | 3 | 0.8J | 3 |
| Diisopropyl ether | ND | ND | NA | ND | ND | ND |
| Ethanol | 3 | 2 | NA | 15 | 9 | 1 |
| Ethyl Acetate | ND | ND | NA | ND | ND | ND |
| Ethyl tert-butyl ether | ND | ND | NA | 0.6J | 0.4J | 0.5J |
| Ethylbenzene | 3 | ND | NA | 4 | 2 | 1 |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | 4 | ND | NA | 5 | 4 | 12 |
| Freon 114 | 2 | ND | NA | 1J | 0.9J | 1J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | NA | 0.8J | 0.7J | 0.5J |
| Hexachlorobutadiene | 2 | ND | NA | 2J | 1J | 2J |
| Hexane | 0.8 | ND | NA | 1 | 1 | 1 |
| iso-Octane | 1 | ND | NA | 19 | 0.9J | 0.8J |
| Isopropylbenzene | 1 | ND | NA | 1 | 0.5J | 0.7J |
| Isopropyl alcohol | 1 | ND | NA | 13 | 1 | 1 |
| m,p-Xylene | NR | NR | NA | NR | NR | NR |
| Methyl Methacrylate | ND | ND | NA | 0.5J | ND | 0.5J |
| Methyl-tert-Butyl-Ether | ND | ND | NA | 0.7J | 0.5J | 0.7 |
| Methylene Chloride | 2 | 0.8 | NA | 6 | 2 | 5 |
| MBK | ND | ND | NA | 0.8J | 0.4J | 0.5J |
| Naphthalene | 6 | ND | NA | 26 | 1 | 2 |
| n-Butane | 0.8 | 0.5 | NA | 1 | 0.5J | ND |
| o-Xylene | NR | NR | NA | NR | NR | NR |
| p-Isopropyltoluene | 2 | ND | NA | 1 | ND | 0.8J |
| n-Propylbenzene | 3 | ND | NA | 3 | 0.7J | 0.9J |
| Propylene | ND | ND | NA | ND | ND | ND |
| Styrene | ND | ND | NA | 0.7J | ND | 0.5J |
| tert-Amyl methyl ether | ND | ND | NA | 0.6J | 0.4J | 0.6J |
| tert-Butyl Alcohol | 0.9 | ND | NA | 2 | 1J | 0.8 |
| Tetrachloroethene | 15 | ND | NA | 15 | 7 | 19 |
| Tetrahydrofuran | 6 | ND | NA | 8 | 2 | 2 |
| Toluene | 2 | ND | NA | 5 | 3 | 1 |
| Total Xylenes | 17 | ND | NA | 22 | 8 | 6 |
| trans-1,2-Dichloroethene | 0.9 | ND | NA | 0.8 | 0.5J | 0.7J |
| trans-1,3-Dichloropropene | ND | ND | NA | 0.6J | ND | ND |
| Trichloroethene | 140 | 10 | NA | 210 | 92 | 190 |
| Trichlorofluoromethane | 2 | 1 | NA | 2 | 2 | 2 |
| Vinyl Acetate | 1 | ND | NA | 3 | ND | ND |
| Vinyl Bromide | 0.9 | ND | NA | 0.7J | 0.5J | 0.7J |
| Vinyl Chloride | 0.5 | ND | NA | 0.4J | 0.3J | 0.4J |

Table 6
Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Quarterly Vapor Monitoring Results of Individual Wells
Through Fourth Quarter 2011

| Sample ID | SVE 106D | | | | | |
|--|----------|----------|----------|----------|----------|----------|
| | 09/16/10 | 12/08/10 | 03/30/11 | 06/28/11 | 09/06/11 | 10/14/11 |
| Analysis by TO-15 ($\mu\text{g}/\text{m}^3$) | | | | | | |
| 1,1,1-Trichloroethane | 20 | 12 | 9 | 20 | 23 | 29 |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | 0.9 J | 1 J |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | 0.7 J | 0.9 J |
| 1,1-Dichloroethane | 5 | 2 | 5 | 4 | 3 | 3 |
| 1,1-Dichloroethene | ND | ND | ND | 0.5 J | 0.7 J | 0.8 |
| 1,2,3-Trichloropropane | ND | ND | ND | ND | 0.7 J | 1 J |
| 1,2,3-Trimethylbenzene | 8 | ND | ND | 6 | ND | 2 |
| 1,2,4-Trichlorobenzene | NR | ND | ND | 1 J | ND | 0.9 J |
| 1,2,4-Trimethylbenzene | 17 | 2 | 2 | 23 | ND | 4 |
| 1,2-Dibromoethane | ND | ND | ND | ND | ND | 1 J |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | 1 J |
| 1,2-Dichloroethane | ND | ND | ND | ND | 0.6 J | 0.7 J |
| 1,2-Dichloropropane | ND | ND | ND | ND | 0.6 J | 0.8 J |
| 1,3,5-Trimethylbenzene | 6 | ND | ND | 4 | ND | 1 |
| 1,3-Butadiene | ND | ND | ND | ND | 0.3 J | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND | 0.8 J |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | 0.8 J |
| 1,4-Dioxane | ND | ND | ND | 0.5 J | 0.7 J | 0.7 J |
| 2,2,4-Trimethylpentane | NR | NR | NR | NR | NR | NR |
| 2-Butanone | 8 | 2 | 0.8 | 5 | 1 | 2 |
| 2-Hexanone | ND | ND | ND | ND | 0.5 J | 0.8 J |
| 2-Propanol | NR | NR | NR | NR | NR | NR |
| 3-Chloro-1-propene | ND | ND | ND | ND | 0.4 J | 0.4 J |
| 4-Ethyltoluene | 6 | ND | ND | 4 | ND | 1 |
| 4-Methyl-2-pentanone | NR | NR | NR | NR | NR | NR |
| Acetone | 25 | 9 | 5 | 11 | 6 | 6 |
| alpha-Chlorotoluene | ND | ND | ND | ND | ND | 0.9 J |
| Acrylonitrile | ND | ND | ND | 0.4 J | 0.4 J | ND |
| Benzene | ND | ND | ND | 2 | 0.5 J | 0.6 J |
| Benzyl Chloride | ND | ND | ND | ND | ND | 0.6 J |
| Bromodichloromethane | ND | ND | ND | ND | 0.9 J | 1 J |
| Bromoform | ND | ND | ND | ND | ND | 2 J |
| Bromomethane | ND | ND | ND | ND | 0.6 J | 0.7 J |
| Carbon Disulfide | ND | ND | ND | 0.6 J | 0.6 J | 0.6 |
| Carbon Tetrachloride | 8 | 26 | 17 | 9 | 6 | 18 |
| Chlorobenzene | ND | ND | ND | ND | 0.5 J | 0.8 J |
| Chlorodibromomethane | ND | ND | ND | ND | 1 J | 1 J |
| Chloroethane | ND | ND | ND | 0.4 J | 0.4 J | 0.4 J |
| Chloroform | ND | 2 | 2 | 5 | 5 | 5 |
| Chlormethane | 3 | 1 | 0.5 | 0.7 | 0.5 | 0.6 |
| cis-1,2-Dichloroethene | 13 | 2 | 11 | 11 | 5 | 4 |
| cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | 0.7 J |
| Cumene | NR | NR | NR | NR | NR | NR |
| Cyclohexane | ND | ND | ND | 1 | 0.4 J | 0.4 J |
| Dichlorodifluoromethane | 6 | 3 | 3 | 4 | 2 | 3 |
| Diisopropyl ether | ND | ND | ND | ND | ND | 1 J |
| Ethanol | 8 | 3 | 2 | 17 | 4 | ND |
| Ethyl Acetate | ND | ND | ND | ND | ND | ND |
| Ethyl tert-butyl ether | ND | ND | ND | ND | 0.6 J | 0.6 J |
| Ethylbenzene | 5 | ND | ND | 5 | ND | 1 |
| Freon 11 | NR | NR | NR | NR | NR | NR |
| Freon 113 | ND | 18 | 30 | 16 | 25 | 25 |
| Freon 114 | ND | ND | ND | ND | 1 J | 1 J |
| Freon 12 | NR | NR | NR | NR | NR | NR |
| Heptane | ND | ND | ND | 1 | 0.4 J | 0.6 J |
| Hexachlorobutadiene | ND | ND | ND | ND | 1 J | 2 J |
| Hexane | 3 | ND | ND | 3 | 2 | 0.6 J |
| iso-Octane | ND | ND | ND | 130 | 0.7 J | 0.8 J |
| Isopropylbenzene | ND | ND | ND | 0.8 J | 0.5 J | 0.8 J |
| Isopropyl alcohol | 5 | ND | 2 | 3 | 2 | ND |
| m,p-Xylene | NR | NR | NR | NR | NR | NR |
| Methyl Methacrylate | ND | ND | ND | ND | 0.4 J | 0.4 J |
| Methyl-tert-Butyl-Ether | ND | ND | ND | ND | 1 | 0.5 J |
| Methylene Chloride | 4 | 2 | 4 | 5 | 17 | 1 |
| MBK | ND | ND | ND | 0.5 J | 0.4 J | 0.6 J |
| Naphthalene | 8 | ND | ND | 25 | ND | 3 |
| n-Butane | ND | 1 | 0.9 | 6 | 0.9 | ND |
| o-Xylene | NR | NR | NR | NR | NR | NR |
| p-Isopropyltoluene | ND | ND | ND | 0.7 J | ND | 0.9 J |
| n-Propylbenzene | ND | ND | ND | 2 | ND | 0.9 J |
| Propylene | ND | ND | ND | ND | ND | MD |
| Styrene | ND | ND | ND | ND | ND | 0.6 J |
| tert-Amyl methyl ether | ND | ND | ND | ND | 0.5 J | 0.6 J |
| tert-Butyl Alcohol | 4 | ND | ND | 0.6 J | 0.5 J | ND |
| Tetrachloroethene | ND | 13 | 19 | 41 | 8 | 66 |
| Tetrahydrofuran | 8 | 2 | 1 | 7 | 2 | 2 |
| Toluene | 5 | 2 | 2 | 11 | 0.5 J | 3 |
| Total Xylenes | 21 | ND | ND | 25 | ND | 6 |
| trans-1,2-Dichloroethene | ND | ND | ND | 0.6 J | 0.8 | 0.9 |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | 0.6 J |
| Trichloroethene | 230 | 130 | 170 | 210 | 260 | 320 |
| Trichlorofluoromethane | 6 | 2 | 2 | 3 | 2 | 3 |
| Vinyl Acetate | 4 | ND | ND | ND | ND | ND |
| Vinyl Bromide | ND | ND | ND | ND | 0.6 J | 0.9 |
| Vinyl Chloride | ND | ND | ND | ND | 0.4 J | 0.5 J |

Notes:

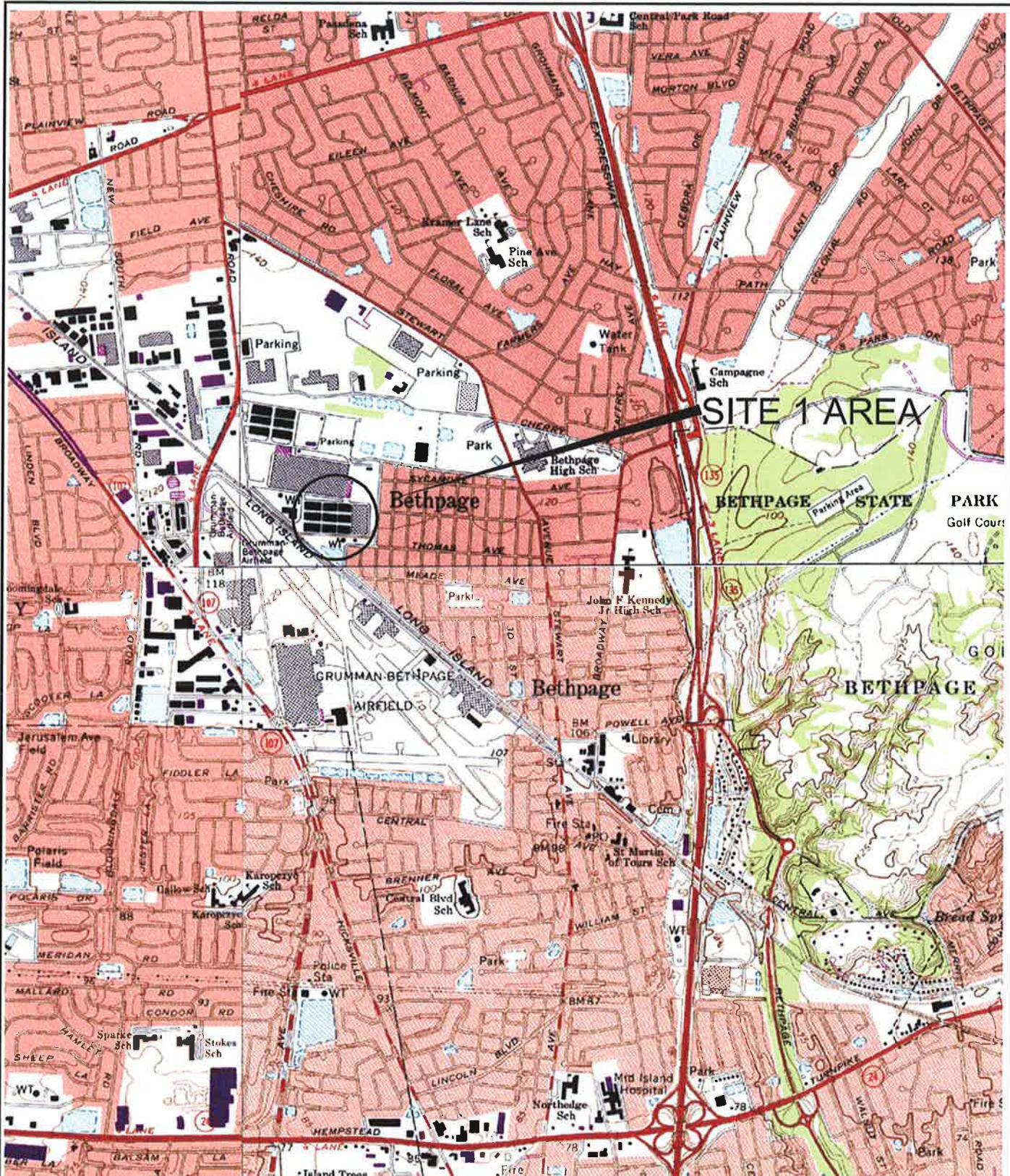
$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

NR = Not Recorded

NA = Data not available. Vapor samples could not be collected due to water in the extraction wells.

Data prior to July 2011 were collected by others.

FIGURES



Quadrangle Location Map

0

2000

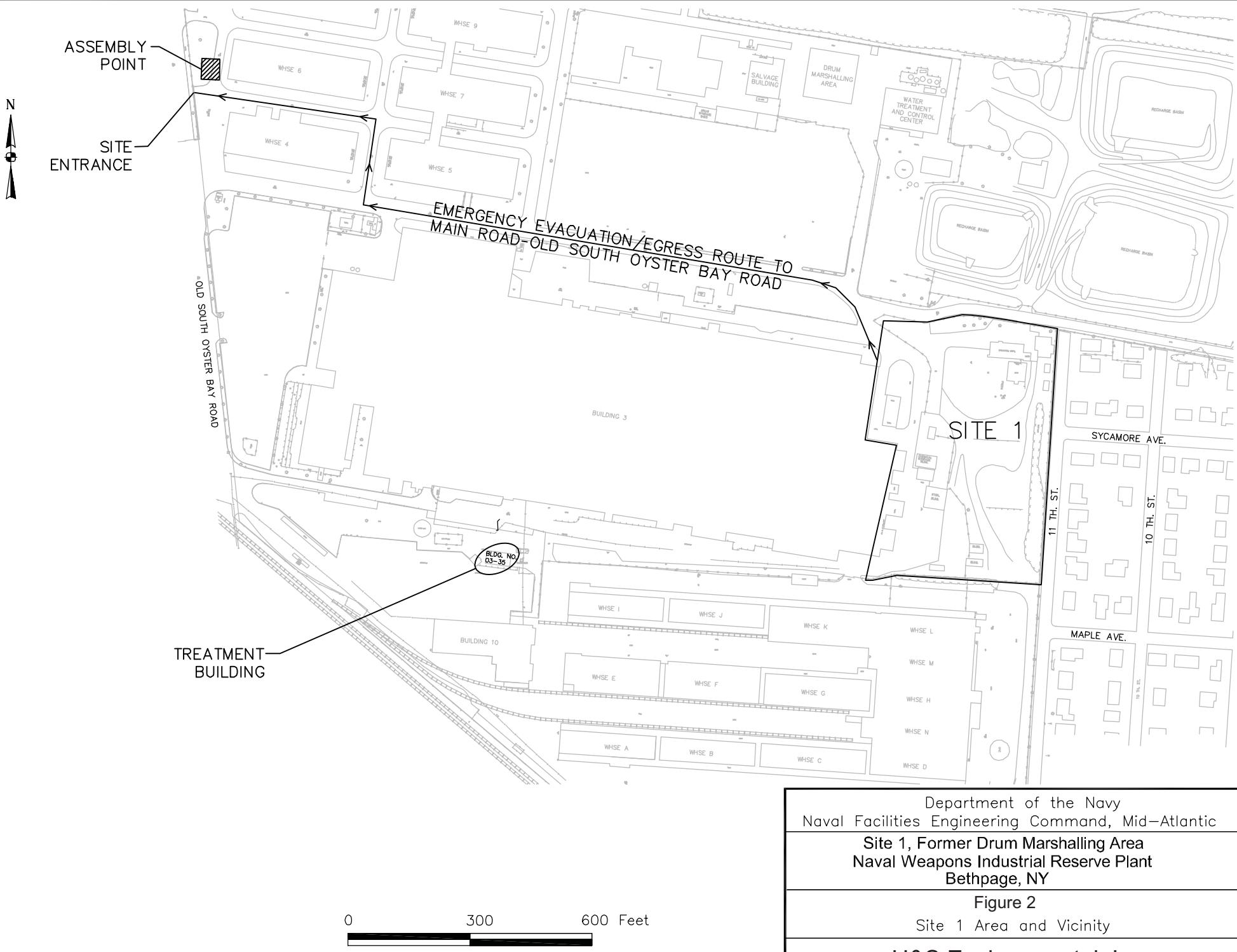
4000 Feet

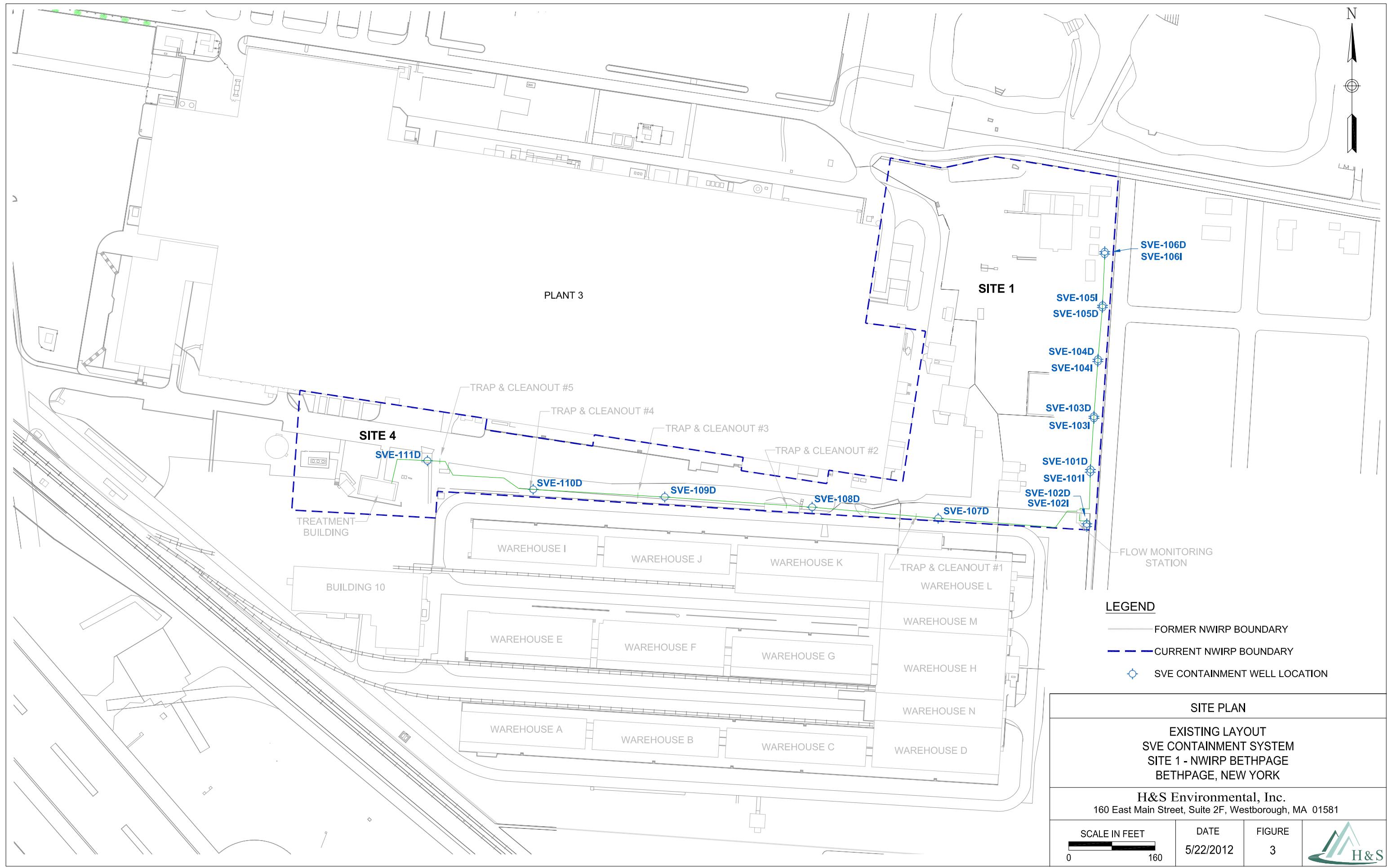


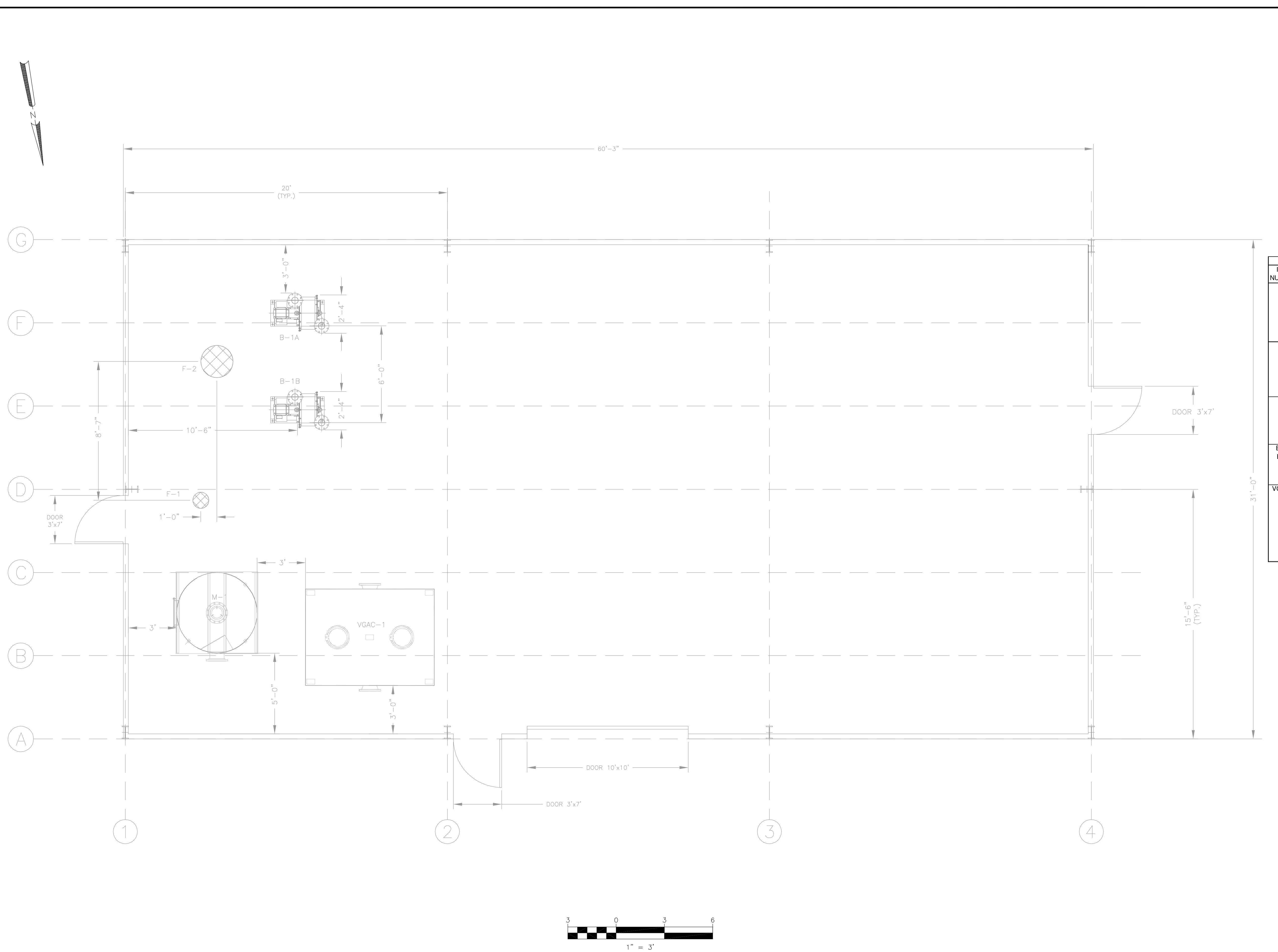
Department of the Navy
Naval Facilities Engineering Command, Mid-Atlantic
Site 1, Former Drum Marshalling Area
Naval Weapons Industrial Reserve Plant
Bethpage, NY

Figure 1: Site Location Map

H&S Environmental, Inc.

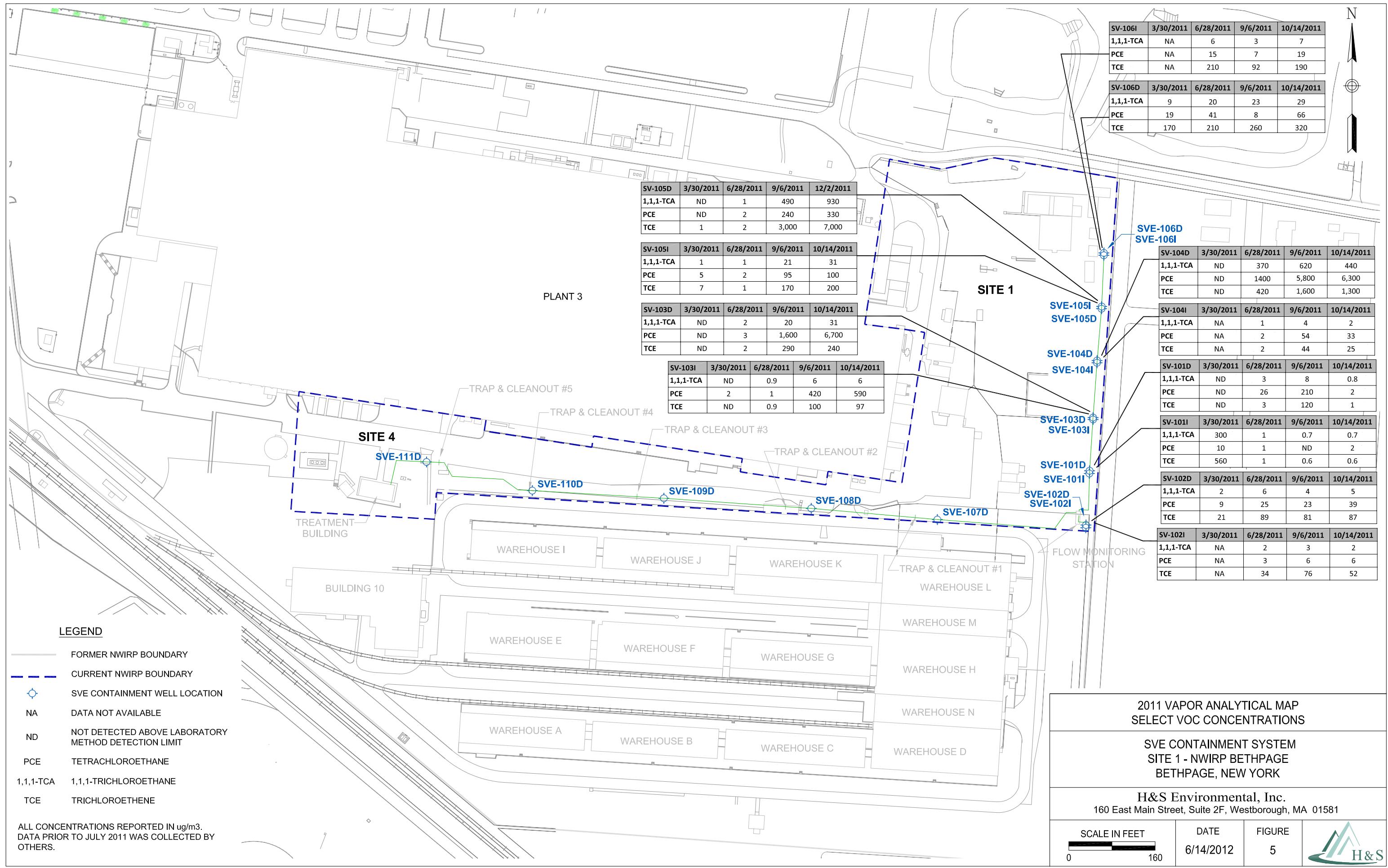






| PROCESS EQUIPMENT LIST | | |
|------------------------|-----------------|---|
| ITEM NUMBER | NUMBER REQUIRED | NAME/DESCRIPTION |
| M-1 | 1 | <u>MOISTURE SEPARATOR</u> -CONFIGURATION: VERTICAL, CYLINDRICAL -MATERIAL OF CONSTRUCTION: CARBON STEEL, EPOXY INTERIOR COATING, PAINT EXTERIOR COATING -CAPACITY: 400 GALLON CONDENSATE COLLECTION -DIMENSIONS: 5 FT DIA X 6 FEET HT, 718 GALLON |
| F-1 | 1 | <u>MAKE-UP AIR FILTER</u> -CONFIGURATION: INTAKE FILTER/SILENCER COMBINATION HOUSING -MATERIAL OF CONSTRUCTION: CARBON STEEL, CORROSION RESISTANCE COATING -CAPACITY: 500 CFM AT 20 IW, 4 INCH FLANGED CONNECTION |
| F-2 | 1 | <u>BLOWER AIR FILTER</u> -CONFIGURATION: INLINE VACUUM SERVICE FILTER -MATERIAL OF CONSTRUCTION: CARBON STEEL, CORROSION RESISTANCE COATING -CAPACITY: 1,200 CFM AT 35 IW, 10 INCH FLANGED CONNECTION |
| B-1A, B-1B | 2 | <u>SOIL VAPOR EXTRACTION BLOWER</u> -CONFIGURATION: HORIZONTAL CENTRIFUGAL -RATING: 600 CFM AT 40 IW -MOTOR: 7.5 HP, 460V, 3PH, 60HZ, ODP |
| GAC-1 | 1 | <u>VAPOR-PHASE GRANULAR ACTIVATED CARBON</u> -CONFIGURATION: RECTANGULAR TANK -MATERIAL OF CONSTRUCTION: CARBON STEEL, EPOXY INTERIOR COATING, EPOXY EXTERIOR COATING -RATING: 1,600 CFM AT 3 IW, 2,000 CFM AT 6 IW -CAPACITY: 5,000 LBS CARBON -DIMENSIONS: 6' X 8' FOOTPRINT, 6' 8" HT |

| | | | |
|--|---|-----------------------------|--------------------------|
| TO | | DATE | |
| NAME I.D. NO. | | | |
| TITLE : AS SHOWN | | | |
| C. NO. | | | |
| INSTRN. CONTR. NO. | | | |
| 62473-10-D-3211 | | | |
| FAC DRAWING NO. | | | |
| Figure 3 | | | |
| SET | | OF | |
| E: | D | DIS. SH. NO. | 1 - 3 |
| APPROVED | | DATE | |
| NAVAL FACILITIES ENGINEERING COMMAND, MID-ATLANTIC | | ISSUED FOR CONSTRUCTION | |
| NAVAL WEAPONS INDUSTRIAL RESERVE PLANT | | DLB | 10-14-09 SGP |
| SITE 1, FORMER DRUM MARSHALLING AREA | | SUPV: | DSGN: BK DR: BW CH ENCL: |
| SOIL VAPOR EXTRACTION CONTAINMENT SYSTEM | | SUBMITTED BY: (FIRM MEMBER) | CHK: SP |
| LAYOUT PLAN | | SOUTHWESTDW DM: _____ | (TITLE) (DATE) |
| | | HD: _____ | |
| | | HD: _____ | |
| | | FPE: _____ | |
| | | DIR: _____ | |
| | | OFFICER IN CHARGE | |
| | | APPROVED | DATE |
| | | EFANE FOR COMMANDER, NAVFAC | |



APPENDIX A
NYSDEC Air Permit Equivalent Approval

New York State Department of Environmental Conservation

Division of Environmental Remediation

Bureau of Remedial Action A

625 Broadway, 11th Floor

Albany, New York 12233-7015

Phone: (518) 402-9625 • Fax: (518) 402-9022



Website: www.dec.state.ny.us

February 5, 2010

Lora Fly, Project Manager
Naval Facilities Engineering Command-Midlant
9742 Maryland Avenue
Norfolk, VA 23511-3095

RE: Naval Weapons Industrial Research Plant(NWIRP)
Site-Bethpage, NYSDEC No. 1-30-003B.

Dear Ms. Fly:

Tetra Tech FW, on behalf of the Department of the Navy (Navy), has submitted the enclosed New York State Department of Environmental Conservation (NYSDEC) Division of Air Resources (DAR) Air Permit Application as a permit equivalent. This DAR Air permit equivalent is for the soil vapor extraction system at Site 1 of Plant 3 of the former Naval Weapons Industrial Reserve Plant (NWIRP) site in Bethpage, NY. The NYSDEC Division of Environmental Remediation (DER) has reviewed the permit equivalent and, by means of this letter approves the Site 1 remedy air discharge for immediate operation.

The NWIRP Site 1 SVE system utilizes the reasonably available control technology (RACT) with activated carbon. The air discharge will be periodically monitored at start up and will be added for routine monitoring in the operation, maintenance and monitoring (OMM) plan, to be submitted shortly for Departmental review.

If you have any questions, please contact me at your earliest convenience at (518)402-9620.

Sincerely,

Steven M. Scharf, P.E.
Project Engineer
Division of Environmental Remediation
Bureau of Remedial Action A

Enclosure

ec/w/enc: J. Swartwout/S. Scharf/File

W. Parish, Region 1 NYSDEC

A. J. Shah, Region 1 NYSDEC

S. Patselos, Tetra Tech FW

J. Cofman, Northrop Grumman

E docs: Region 1, Nassau, Oyster Bay (T): NWIRP Bethpage 130003B-OU1-OMM

New York State Department of Environmental Conservation
Air Permit Application



| |
|-----------|
| DEC ID |
| - - - - - |

| |
|----------------|
| APPLICATION ID |
| - - - / - - - |

| |
|-----------------|
| OFFICE USE ONLY |
| / / / / / |

Section I - Certification

Title V Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information [required pursuant to 6 NYCRR 201-6.3(d)] I believe the information is, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

| | |
|----------------------|----------|
| Responsible Official | Title |
| Signature | Date / / |

State Facility Certification

I certify that this facility will be operated in conformance with all provisions of existing regulations.

| | |
|----------------------|----------|
| Responsible Official | Title |
| Signature | Date / / |

Section II - Identification Information

| | | | | | |
|---|---|---|--|----------------------------------|--|
| Title V Facility Permit N/A | <input type="checkbox"/> New <input type="checkbox"/> Significant Modification <input type="checkbox"/> Renewal <input type="checkbox"/> Minor Modification | <input type="checkbox"/> Administrative Amendment | General Permit Title: _____ | State Facility Permit N/A | <input type="checkbox"/> New <input type="checkbox"/> Modification |
| <input checked="" type="checkbox"/> Application involves construction of new facility | | | <input type="checkbox"/> Application involves construction of new emission unit(s) | | |

Owner/Firm

| | | | | | |
|---|--|--|------------------------------------|--------------------------------------|------------------|
| Name US Navy / NAVFAC Midlant | Street Address 9742 Maryland Ave, Bldg Z-144 | City Norfolk | State VA | Country US | Zip 23511 - 3095 |
| Owner Classification <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Corporation/Partnership | | <input type="checkbox"/> State <input type="checkbox"/> Individual | <input type="checkbox"/> Municipal | Taxpayer ID <input type="checkbox"/> | |

Facility

| | |
|--|---------------------------------------|
| Name Naval Weapons Industrial Reserve Plant (NWIRP) Site 1 | <input type="checkbox"/> Confidential |
| Location Address Bethpage | |
| <input type="checkbox"/> City / <input checked="" type="checkbox"/> Town / <input type="checkbox"/> Village Oyster Bay, New York | Zip 11714 |

Project Description

Continuation Sheet(s)

Vapor phase granular activated carbon to remove VOCs from soil/gas

Owner/Firm Contact Mailing Address

| | | |
|--|--------------------------|-------------|
| Name (Last, First, Middle Initial) Fly, Lora | Phone No. (757) 444-0781 | |
| Affiliation Department of the Navy | Title Remedial PM | Fax No. () |

Street Address 9742 Maryland Ave, Bldg Z-144

City Norfolk

State VA Country US Zip 23511-3095

Facility Contact Mailing Address

Name (Last, First, Middle Initial)

Phone No. ()

Affiliation

Fax No. ()

Street Address

City

State Country Zip

**New York State Department of Environmental Conservation
Air Permit Application**



| | | | | | | |
|--------|---|---|---|---|---|---|
| DEC ID | - | - | - | - | - | - |
|--------|---|---|---|---|---|---|

Section III - Facility Information

Classification

Hospital Residential Educational/Institutional Commercial Industrial Utility

Affected States (Title V Only) N/A

| | | | | |
|--|--|---------------------------------------|---------------------------------------|--------------|
| <input type="checkbox"/> Vermont | <input type="checkbox"/> Massachusetts | <input type="checkbox"/> Rhode Island | <input type="checkbox"/> Pennsylvania | Tribal Land: |
| <input type="checkbox"/> New Hampshire | <input type="checkbox"/> Connecticut | <input type="checkbox"/> New Jersey | <input type="checkbox"/> Ohio | Tribal Land: |

SIC Codes

| | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|
| 9999 | | | | | | | | | | | |
| | | | | | | | | | | | |

Facility Description

Continuation Sheet(s)

Soil vapor remediation by SVE followed by vapor phase GAC

Compliance Statements (Title V Only) N/A

I certify that as of the date of this application the facility is in compliance with all applicable requirements: YES NO

If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block on page 8 of this form along with the compliance plan information required. For all emission units at this facility that are operating in compliance with all applicable requirements complete the following:

- This facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit, except those units referenced in the compliance plan portion of Section IV of this application.
- For all emission units, subject to any applicable requirements that will become effective during the term of the permit, this facility will meet all such requirements on a timely basis.
- Compliance certification reports will be submitted at least once a year. Each report will certify compliance status with respect to each requirement, and the method used to determine the status.

Facility Applicable Federal Requirements N/A

Continuation Sheet(s)

| Title | Type | Part | Sub Part | Section | Sub Division | Paragraph | Sub Paragraph | Clause | Sub Clause |
|-------|------|------|----------|---------|--------------|-----------|---------------|--------|------------|
| | | | | | | | | | |
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Facility State Only Requirements

Continuation Sheet(s)

| Title | Type | Part | Sub Part | Section | Sub Division | Paragraph | Sub Paragraph | Clause | Sub Clause |
|-------|------|------|----------|---------|--------------|-----------|---------------|--------|------------|
| | | | | | | | | | |
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New York State Department of Environmental Conservation
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Section III - Facility Information (continued)

| Facility Compliance Certification <input type="checkbox"/> N/A | | | | | | | | <input type="checkbox"/> Continuation Sheet(s) | |
|--|----------------------------------|-------------|--|---------|-----------------------------|--|---------------|--|------------|
| Rule Citation | | | | | | | | | |
| Title | Type | Part | Sub Part | Section | Sub Division | Paragraph | Sub Paragraph | Clause | Sub Clause |
| <input type="checkbox"/> Applicable Federal Requirement | <input type="checkbox"/> Capping | | | CAS No. | Contaminant Name | | | | |
| <input type="checkbox"/> State Only Requirement | | | | | | | | | |
| Monitoring Information | | | | | | | | | |
| <input type="checkbox"/> Ambient Air Monitoring | | | <input type="checkbox"/> Work Practice Involving Specific Operations | | | <input type="checkbox"/> Record Keeping/Maintenance Procedures | | | |
| Description | | | | | | | | | |
| <hr/> <hr/> <hr/> <hr/> <hr/> | | | | | | | | | |
| Work Practice | Process Material | | | | | Reference Test Method | | | |
| Type | Code | Description | | | | | | | |
| <hr/> | | | | | | | | | |
| Parameter | | | | | Manufacturer Name/Model No. | | | | |
| Code | Description | | | | | | | | |
| <hr/> | | | | | | | | | |
| Limit | | | Limit Units | | | | | | |
| Upper | Lower | Code | Description | | | | | | |
| <hr/> | | | | | | | | | |
| Averaging Method | | | Monitoring Frequency | | | Reporting Requirements | | | |
| Code | Description | Code | Description | | Code | Description | | | |
| <hr/> | | | | | | | | | |

| Facility Emissions Summary | | | <input type="checkbox"/> Continuation Sheet(s) | | |
|----------------------------|--|--|--|------------|--------------------|
| CAS No. | Contaminant Name | | PTE (lbs/yr) | Range Code | Actual (lbs/yr) |
| NY075 - 00 - 5 | PM-10 | | | | |
| NY075 - 00 - 0 | PARTICULATES | | | | |
| 7446 - 09 - 5 | SULFUR DIOXIDE | | | | |
| NY210 - 00 - 0 | OXIDES OF NITROGEN | | | | |
| 630 - 08 - 0 | CARBON MONOXIDE | | | | |
| 7439 - 92 - 1 | LEAD | | | | |
| NY998 - 00 - 0 | VOC | | 1,222 | | |
| NY100 - 00 - 0 | HAP | | 1,813 | | |
| 00071 - 55 - 6 | 1,1,1-Trichloroethane (Methyl Chloroform) | | 591 | | |
| 00127 - 18 - 4 | Tetrachloroethylene | | 8 | | |
| 00079 - 01 - 6 | Trichloroethylene | | 1,181 | | |
| 00075 - 34 - 3 | 1,1-Dichloroethane | | 11 | | |
| 00075 - 35 - 4 | 1,1-Dichloroethylene (Vinylidene Chloride) | | 16 | | |

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Section III - Facility Information

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Section IV - Emission Unit Information

| Emission Unit Description | | | | | <input type="checkbox"/> Continuation Sheet(s) |
|--|--------|-------|--|--|--|
| EMISSION UNIT | 1 - 00 | E U 1 | Effluent from first soil vapor extraction blower (BL-1) | | |
| Vapor Phase Granular Activated Carbon Unit. The emission point is stack OOST-2 | | | | | |

| Building | | | | | <input type="checkbox"/> Continuation Sheet(s) |
|----------|--------------------|--|-------------|------------|--|
| Building | Building Name | | Length (ft) | Width (ft) | Orientation |
| 03-35 | Treatment Building | | 60 | 40 | 0 |
| | | | | | |
| | | | | | |

| Emission Point | | | | | <input type="checkbox"/> Continuation Sheet(s) |
|------------------------|---------------------|--------------------------------|-------------------------|--------------------|---|
| EMISSION PT. | 00512 | | | | |
| Ground Elev. (ft) | Height (ft) | Height Above Structure (ft) | Inside Diameter (in) | Exit Temp. (°F) | Cross Section |
| | 36 | 60 | 8 | 70 | Length (in) Width (in) |
| Exit Velocity (FPS) | Exit Flow (ACFM) | NYTM (E) (KM) | NYTM (N) (KM) | Building | Distance to Property Line (ft) Date of Removal |
| | 1,000 | | | 03-35 | 100† |
| EMISSION PT. | 00512 | | | | |
| Ground Elev. (ft) | Height (ft) | Height Above Structure (ft) | Inside Diameter (in) | Exit Temp. (°F) | Cross Section |
| | | | | | Length (in) Width (in) |
| Exit Velocity (FPS) | Exit Flow (ACFM) | NYTM (E) (KM) | NYTM (N) (KM) | Building | Distance to Property Line (ft) Date of Removal |
| | | | | | |

| Emission Source/Control | | | | | <input type="checkbox"/> Continuation Sheet(s) |
|-------------------------|-------------------------|----------------------|--------------------|--------------------------|--|
| Emission Source | Date of Construction | Date of Operation | Date of Removal | Control Type | Manufacturer's Name/Model No. |
| ID | Type | | | Code Description | |
| BL1/2 | 1 | | | 048 Granular Act. Carbon | Tetrasolv Filtration |
| Design Capacity | Design Capacity Units | | | Waste Feed | Waste Type |
| | Code | Description | | Code Description | Code Description |
| | | | | | |
| Emission Source | Date of Construction | Date of Operation | Date of Removal | Control Type | Manufacturer's Name/Model No. |
| ID | Type | | | Code Description | |
| | | | | | |
| Design Capacity | Design Capacity Units | | | Waste Feed | Waste Type |
| | Code | Description | | Code Description | Code Description |
| | | | | | |

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Section IV - Emission Unit Information (continued)

| Process Information | | | | | <input type="checkbox"/> Continuation Sheet(s) | | |
|--|------------|--------------------|-------------|------------------------|--|-----|--|
| EMISSION UNIT | 1 - 00 EU1 | | | | PROCESS | SVE | |
| Description | | | | | | | |
| <p>The Soil Vapor Extraction System will consist of 12 SVE wells (6 intermediate and 6 deep), a moisture separator, and 2 soil vapor extraction blowers (BL-1 and BL-2) which both vent to a vapor phase granular activated carbon unit for treatment prior to discharge from stack #00STA. The VGAC unit will be a 5,000 pound unit, filled with Tetrasolv Virgin Carbon. The VGAC unit has been designed to operate nominally at 600 cfm, with a maximum of 1,000 cfm.</p> | | | | | | | |
| Source Classification Code (SCC) | | Total Thruput | | Thruput Quantity Units | | | |
| | | Quantity/Hr | Quantity/Yr | Code | Description | | |
| | | | | | | | |
| <input type="checkbox"/> Confidential <input checked="" type="checkbox"/> Operating at Maximum Capacity <input type="checkbox"/> Activity with Insignificant Emissions | | Operating Schedule | | Building | Floor/Location | | |
| | | Hrs/Day | Days/Yr | | | | |
| | | 24 | 365 | | | | |
| Emission Source/Control Identifier(s) | | | | | | | |
| BL-1 | BL-2 | | | | | | |
| EMISSION UNIT | - | | | | PROCESS | | |
| Description | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Source Classification Code (SCC) | | Total Thruput | | Thruput Quantity Units | | | |
| | | Quantity/Hr | Quantity/Yr | Code | Description | | |
| | | | | | | | |
| <input type="checkbox"/> Confidential <input type="checkbox"/> Operating at Maximum Capacity <input type="checkbox"/> Activity with Insignificant Emissions | | Operating Schedule | | Building | Floor/Location | | |
| | | Hrs/Day | Days/Yr | | | | |
| | | | | | | | |
| Emission Source/Control Identifier(s) | | | | | | | |
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Section IV - Emission Unit Information (continued)

| Emission Unit | Emission Point | Process | Emission Source | Emission Unit Applicable Federal Requirements | | | | | | | | <input type="checkbox"/> Continuation Sheet(s) | |
|---------------|----------------|---------|-----------------|---|------|------|----------|---------|--------------|--------|------------|--|------------|
| | | | | Title | Type | Part | Sub Part | Section | Sub Division | Parag. | Sub Parag. | Clause | Sub Clause |
| - | - | - | - | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | |

| Emission Unit | Emission Point | Process | Emission Source | Emission Unit State Only Requirements | | | | | | | | <input type="checkbox"/> Continuation Sheet(s) | |
|---------------|----------------|---------|-----------------|---------------------------------------|------|------|----------|---------|--------------|--------|------------|--|------------|
| | | | | Title | Type | Part | Sub Part | Section | Sub Division | Parag. | Sub Parag. | Clause | Sub Clause |
| - | - | - | - | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|------------------|-------------|-----------------|--|----------------------------|-----------|---------------|----------------------------------|-----------------------------|--|--|--|--|
| Emission Unit Compliance Certification | | | | | | | | | | <input type="checkbox"/> Continuation Sheet(s) | | | |
| Rule Citation | | | | | | | | | | | | | |
| Title | Type | Part | Sub Part | Section | Sub Division | Paragraph | Sub Paragraph | Clause | Sub Clause | | | | |
| 6 | NYCRR | 212 | - | - | - | - | - | - | - | | | | |
| <input type="checkbox"/> Applicable Federal Requirement | | | | <input type="checkbox"/> State Only Requirement | | | | <input type="checkbox"/> Capping | | | | | |
| Emission Unit | Emission Point | Process | Emission Source | CAS No. | | | | Contaminant Name | | | | | |
| 1-00EU1 | 00STA2 | SVE | | 00079-01-6 | | | | Trichloroethylene | | | | | |
| Monitoring Information | | | | | | | | | | | | | |
| <input type="checkbox"/> Continuous Emission Monitoring <input checked="" type="checkbox"/> Intermittent Emission Testing <input type="checkbox"/> Ambient Air Monitoring | | | | <input type="checkbox"/> Monitoring of Process or Control Device Parameters as Surrogate <input type="checkbox"/> Work Practice Involving Specific Operations <input type="checkbox"/> Record Keeping/Maintenance Procedures | | | | | | | | | |
| Description | | | | | | | | | | | | | |
| Monthly grab samples analyzed for VOCs from the VGAC unit influent and effluent | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Work Practice | Process Material | | | | | | | | Reference Test Method | | | | |
| Type | Code | Description | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Parameter | | | | | | | | | | | | | |
| Code | Description | | | | | | | | Manufacturer Name/Model No. | | | | |
| 23 | Concentration | | | | | | | | | | | | |
| Limit | | | | Limit Units | | | | | | | | | |
| Upper | Lower | | | Code | Description | | | | | | | | |
| 36,000 | | | | 255 | micrograms per cubic meter | | | | | | | | |
| Averaging Method | | | | Monitoring Frequency | | | | Reporting Requirements | | | | | |
| Code | Description | | | Code | Description | | | Code | Description | | | | |
| 01 | Instantaneous | | | 05 | Monthly | | | 10 | Upon Request | | | | |

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Section IV - Emission Unit Information (continued)

| Determination of Non-Applicability (Title V Only) <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Continuation Sheet(s) | | | | | | | | | |
|--|---|------------------|-----------------|----------------|--------------------|--|---------------|--------------------|------------|
| Rule Citation | | | | | | | | | |
| Title | Type | Part | Sub Part | Section | Sub Division | Paragraph | Sub Paragraph | Clause | Sub Clause |
| Emission Unit | Emission Point | Process | Emission Source | | | <input type="checkbox"/> Applicable Federal Requirement <input type="checkbox"/> State Only Requirement | | | |
| Description | | | | | | | | | |
| Rule Citation | | | | | | | | | |
| Title | Type | Part | Sub Part | Section | Sub Division | Paragraph | Sub Paragraph | Clause | Sub Clause |
| Emission Unit | Emission Point | Process | Emission Source | | | <input type="checkbox"/> Applicable Federal Requirement <input type="checkbox"/> State Only Requirement | | | |
| Description | | | | | | | | | |
| Process Emissions Summary <input type="checkbox"/> Continuation Sheet(s) | | | | | | | | | |
| EMISSION UNIT | PROCESS <input checked="" type="checkbox"/> SVE | | | | | | | | |
| CAS No. | Contaminant Name | | | % Thruput | % Capture | % Control | ERP (lbs/hr) | ERP How Determined | |
| 00071-55-6 | 1,1,1-Trichloroethane | | | | | 80 | 0.34 | 02 | |
| PTE | | | | Standard Units | PTE How Determined | Actual | | | |
| (lbs/hr) | (lbs/yr) | (standard units) | (lbs/hr) | | | (lbs/yr) | | | |
| 0.07 | 591 | | | | 02 | | | | |
| EMISSION UNIT | PROCESS <input checked="" type="checkbox"/> SVE | | | | | | | | |
| CAS No. | Contaminant Name | | | % Thruput | % Capture | % Control | ERP (lbs/hr) | ERP How Determined | |
| 00127-18-4 | Tetrachloroethylene | | | | | 80 | 0.00 | 02 | |
| PTE | | | | Standard Units | PTE How Determined | Actual | | | |
| (lbs/hr) | (lbs/yr) | (standard units) | (lbs/hr) | | | (lbs/yr) | | | |
| 0.00 BRT | 8 | | | | 02 | | | | |
| EMISSION UNIT | PROCESS <input checked="" type="checkbox"/> SVE | | | | | | | | |
| CAS No. | Contaminant Name | | | % Thruput | % Capture | % Control | ERP (lbs/hr) | ERP How Determined | |
| 00079-01-6 | Trichloroethylene | | | | | 80 | 0.67 | 02 | |
| PTE | | | | Standard Units | PTE How Determined | Actual | | | |
| (lbs/hr) | (lbs/yr) | (standard units) | (lbs/hr) | | | (lbs/yr) | | | |
| 0.13 | 1,181 | | | | 02 | | | | |

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Section IV - Emission Unit Information (continued)

| EMISSION UNIT I-OC EU1 | | Emission Unit Emissions Summary | | <input checked="" type="checkbox"/> Continuation Sheet(s) | | | |
|---------------------------|------------------|--|----------|---|--|--|--|
| CAS No. | | Contaminant Name | | | | | |
| 00075-34-3 | | 1,1-Dichloroethane | | | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | | | |
| | BRT | 11 | | | | | |
| CAS No. | Contaminant Name | | | | | | |
| 00075-35-4 | | 1,1-Dichloroethylene (Vinylidene Chloride) | | | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | | | |
| | BRT | 16 | | | | | |
| CAS No. | Contaminant Name | | | | | | |
| 00540-59-0 | | cis-1,2-Dichloroethene | | | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | | | |
| | BRT | 5 | | | | | |
| CAS No. | Contaminant Name | | | | | | |
| 00107-06-2 | | 1,2-Dichloroethane | | | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | | | |
| | BRT | BRT | | | | | |

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Section IV - Emission Unit Information

| EMISSION UNIT | | Emission Unit Emissions Summary (continuation) | | | |
|---------------|--------------------------|--|----------|----------|--|
| 1 - 00 EU 1 | | | | | |
| CAS No. | | Contaminant Name | | | |
| 00156-60-5 | trans-1,2-Dichloroethene | PTE Emissions | | Actual | |
| ERP (lbs/yr) | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | |
| | BRT | BRT | | | |
| CAS No. | | Contaminant Name | | | |
| 00015-01-4 | Vinyl Chloride | PTE Emissions | | Actual | |
| ERP (lbs/yr) | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | |
| | BRT | BRT | | | |
| CAS No. | | Contaminant Name | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | |
| CAS No. | | Contaminant Name | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | |
| CAS No. | | Contaminant Name | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | |
| CAS No. | | Contaminant Name | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | |
| CAS No. | | Contaminant Name | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | |
| CAS No. | | Contaminant Name | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | |
| CAS No. | | Contaminant Name | | | |
| ERP (lbs/yr) | PTE Emissions | | Actual | | |
| | (lbs/hr) | (lbs/yr) | (lbs/hr) | (lbs/yr) | |

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Section IV - Emission Unit Information (continued)

| Request for Emission Reduction Credits | | | | | | <input type="checkbox"/> Continuation Sheet(s) | |
|--|------------------|--|--|--|--|--|-----------|
| EMISSION UNIT | - - - - - | | | | | | |
| Emission Reduction Description | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Contaminant Emission Reduction Data | | | | | | | |
| Baseline Period ____ / ____ to ____ / ____ | | | | | | Reduction | |
| | | | | | | Date | Method |
| | | | | | | / / | |
| CAS No. | Contaminant Name | | | | | ERC (lbs/yr) | |
| | | | | | | Netting | Offset |
| - - | | | | | | | |
| - - | | | | | | | |
| - - | | | | | | | |
| Facility to Use Future Reduction | | | | | | | |
| Name | | | | | | APPLICATION ID | |
| | | | | | | / - - - - | / / / / / |
| Location Address | | | | | | | |
| <input type="checkbox"/> City / <input type="checkbox"/> Town / <input type="checkbox"/> Village | | | | | | State | Zip |

| Use of Emission Reduction Credits | | | | | | <input type="checkbox"/> Continuation Sheet(s) | |
|--|------------------|------------------|--|--|--------------|--|-----------|
| EMISSION UNIT | - - - - - | | | | | | |
| Proposed Project Description | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Contaminant Emissions Increase Data | | | | | | | |
| CAS No. | Contaminant Name | | | | | PEP (lbs/yr) | |
| - - | | | | | | | |
| Statement of Compliance | | | | | | | |
| <input type="checkbox"/> All facilities under the ownership of this "ownership/firm" are operating in compliance with all applicable requirements and state regulations including any compliance certification requirements under Section 114(a)(3) of the Clean Air Act Amendments of 1990, or are meeting the schedule of a consent order. | | | | | | | |
| Source of Emission Reduction Credit - Facility | | | | | | | |
| Name | | | | | | PERMIT ID | |
| | | | | | | / - - - - | / / / / / |
| Location Address | | | | | | | |
| <input type="checkbox"/> City / <input type="checkbox"/> Town / <input type="checkbox"/> Village | | | | | | State | Zip |
| Emission Unit | CAS No. | Contaminant Name | | | ERC (lbs/yr) | | |
| | | | | | Netting | Offset | |
| - - | - - | | | | | | |
| - - | - - | | | | | | |
| - - | - - | | | | | | |

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Supporting Documentation

- P.E. Certification (form attached)
- List of Exempt Activities (form attached)
- Plot Plan
- Methods Used to Determine Compliance (form attached)
- Calculations
 - Air Quality Model (____ / ____ / ____)
 - Confidentiality Justification
 - Ambient Air Monitoring Plan (____ / ____ / ____)
 - Stack Test Protocols/Reports (____ / ____ / ____)
 - Continuous Emissions Monitoring Plans/QA/QC (____ / ____ / ____)
 - MACT Demonstration (____ / ____ / ____)
 - Operational Flexibility: Description of Alternative Operating Scenarios and Protocols
 - Title IV: Application/Registration
 - ERC Quantification (form attached)
 - Use of ERC(s) (form attached)
 - Baseline Period Demonstration
 - Analysis of Contemporaneous Emission Increase/Decrease
 - LAER Demonstration (____ / ____ / ____)
 - BACT Demonstration (____ / ____ / ____)
- Other Document(s): _____ (____ / ____ / ____)

APPENDIX B
Laboratory Analytical Data

October 2011 Monthly Data

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DOD ELAP: A2LA 0818.01

State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

October 14, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name: **NWIRP Bethpage - GM-38**

Workorder: **9931150**

Purchase Order:

Workorder ID: **HNW025|NWIRP Bethpage GM-38**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Friday, October 07, 2011.

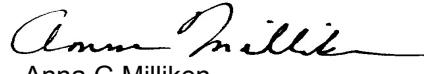
The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Anna G Milliken
Technical Manager

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

SAMPLE SUMMARY

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Discard Date: 12/13/2011

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|-------------------|--------|----------------|---------------|--------------|
| 9931150001 | IN-SITE1-01-10611 | Air | 10/6/11 13:30 | 10/7/11 09:15 | Customer |
| 9931150002 | IN-SITE1-02-10611 | Air | 10/6/11 14:00 | 10/7/11 09:15 | Customer |
| 9931150003 | EF-SITE1-10611 | Air | 10/6/11 13:30 | 10/7/11 09:15 | Customer |

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

| | |
|--------|--|
| J, B | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| | | | | | |
|------------|--------------------------|-----------------|-----------------|---------|-----|
| Lab ID: | 9931150001 | Date Collected: | 10/6/2011 13:30 | Matrix: | Air |
| Sample ID: | IN-SITE1-01-10611 | Date Received: | 10/7/2011 09:15 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 2.6 | ppbv | 1,2,3 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Acrylonitrile | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| tert-Amyl methyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Benzene | 0.21J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Benzyl Chloride | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Bromodichloromethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Bromoform | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Bromomethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,3-Butadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| n-Butane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 2-Butanone | 0.72 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| tert-Butyl Alcohol | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Carbon Disulfide | 0.24J | ppbv | 3 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Carbon Tetrachloride | 0.36J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chlorodibromomethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chloroform | 1.3 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chloromethane | 0.25J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 3-Chloro-1-propene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| o-Chlorotoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Cyclohexane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2-Dibromoethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2-Dichlorobenzene | 0.24J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,3-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,4-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Dichlorodifluoromethane | 0.59 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1-Dichloroethane | 5.3 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2-Dichloroethane | 0.39J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1-Dichloroethene | 0.42 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| cis-1,2-Dichloroethene | 55 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| trans-1,2-Dichloroethene | 0.73 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2-Dichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| cis-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| trans-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,3-Dichloropropene, Total | 0.40U | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Diisopropyl ether | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,4-Dioxane | 0.26J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Ethanol | 0.84 | ppbv | 4,5 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Ethyl Acetate | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Ethyl tert-butyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| Lab ID: | 9931150001 | | | Date Collected: | 10/6/2011 13:30 | | Matrix: | Air | | | |
|----------------------------|--------------------------|-------|-----------|-----------------|-----------------|------|---------|----------|----------------|-----|------|
| Sample ID: | IN-SITE1-01-10611 | | | Date Received: | 10/7/2011 09:15 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 4-Ethyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Freon 113 | 7.6 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Freon-114 | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Heptane | 0.22J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Hexachlorobutadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Hexane | 0.20J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 2-Hexanone | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Isopropyl Alcohol | 0.40J | ppbv | 3 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Isopropylbenzene | 2.2 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| p-Isopropyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Methyl methacrylate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Methyl t-Butyl Ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Methylene Chloride | 0.31J | ppbv | 3,6 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Naphthalene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| iso-Octane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| n-Propylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Propylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Styrene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Tetrachloroethene | 170 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/12/11 22:01 | ECB | A |
| Tetrahydrofuran | 1.4 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Toluene | 0.42 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Total Xylenes | 0.70J | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1,1-Trichloroethane | 52 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1,2-Trichloroethane | 0.27J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Trichloroethene | 250 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/12/11 22:01 | ECB | A |
| Trichlorofluoromethane | 0.56 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2,3-Trichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Vinyl Acetate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Vinyl Bromide | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Vinyl Chloride | 0.25J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| o-Xylene | 0.24J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:06 | ECB | A |
| mp-Xylene | 0.46J | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Acetone | 6 | ug/m3 | 1,2,3 | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Acrylonitrile | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/14/11 06:06 | ECB | A |
| tert-Amyl methyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| | | | | | |
|------------|--------------------------|-----------------|-----------------|---------|-----|
| Lab ID: | 9931150001 | Date Collected: | 10/6/2011 13:30 | Matrix: | Air |
| Sample ID: | IN-SITE1-01-10611 | Date Received: | 10/7/2011 09:15 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|-----|-----|-----|--------|----------|----------------|-----|------|
| Benzene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Benzyl Chloride | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Bromodichloromethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Bromoform | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Bromomethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,3-Butadiene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/14/11 06:06 | ECB | A |
| n-Butane | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 2-Butanone | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:06 | ECB | A |
| tert-Butyl Alcohol | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Carbon Disulfide | 0.8J | ug/m3 | 3 | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Carbon Tetrachloride | 2J | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chlorobenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chlorodibromomethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chloroethane | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chloroform | 6 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Chloromethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 3-Chloro-1-propene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:06 | ECB | A |
| o-Chlorotoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Cyclohexane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2-Dibromoethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2-Dichlorobenzene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,3-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,4-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1-Dichloroethane | 21 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2-Dichloroethane | 2J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1-Dichloroethene | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| cis-1,2-Dichloroethene | 220 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| trans-1,2-Dichloroethene | 3 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2-Dichloropropane | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:06 | ECB | A |
| cis-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:06 | ECB | A |
| trans-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,3-Dichloropropene, Total | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Diisopropyl ether | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,4-Dioxane | 0.9J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Ethanol | 2 | ug/m3 | 4,5 | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Ethyl Acetate | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Ethyl tert-butyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Ethylbenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 4-Ethyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Freon 113 | 58 | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Freon-114 | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| Lab ID: | 9931150001 | Date Collected: 10/6/2011 13:30 | | | | | Matrix: | Air | | | |
|----------------------------|--------------------------|---------------------------------|-----------|--------|-----|-----|---------|----------|----------------|-----|------|
| Sample ID: | IN-SITE1-01-10611 | Date Received: 10/7/2011 09:15 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.9J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Hexachlorobutadiene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Hexane | 0.7J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 2-Hexanone | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Isopropyl Alcohol | 1J | ug/m3 | 3 | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Isopropylbenzene | 11 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| p-Isopropyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Methyl Methacrylate | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Methyl t-Butyl Ether | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Methylene Chloride | 1J | ug/m3 | 3,6 | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Naphthalene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| iso-Octane | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:06 | ECB | A |
| n-Propylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Propylene | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Styrene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Tetrachloroethene | 1100 | ug/m3 | | 14 | 7 | 7 | TO-15 | | 10/12/11 22:01 | ECB | A |
| Tetrahydrofuran | 4 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Toluene | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Total Xylenes | 3J | ug/m3 | | 5 | 3 | 3 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2,4-Trichlorobenzene | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1,1-Trichloroethane | 280 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,1,2-Trichloroethane | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Trichloroethene | 1400 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 10/12/11 22:01 | ECB | A |
| Trichlorofluoromethane | 3 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2,3-Trichloropropane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2,4-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,3,5-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| 1,2,3-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Vinyl Acetate | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Vinyl Bromide | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Vinyl Chloride | 0.6J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:06 | ECB | A |
| o-Xylene | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:06 | ECB | A |
| mp-Xylene | 2J | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/14/11 06:06 | ECB | A |
| Surrogate Recoveries | Results | Units | Footnotes | Limits | | | Method | Prepared | Analyzed | By | Cntr |
| 4-Bromofluorobenzene (S) | 98 | % | | 70-130 | | | TO-15 | | 10/12/11 22:01 | ECB | A |
| 4-Bromofluorobenzene (S) | 100 | % | | 70-130 | | | TO-15 | | 10/14/11 06:06 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150001** Date Collected: 10/6/2011 13:30 Matrix: Air
Sample ID: **IN-SITE1-01-10611** Date Received: 10/7/2011 09:15

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna Milliken
Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| | | | | | |
|------------|--------------------------|-----------------|-----------------|---------|-----|
| Lab ID: | 9931150002 | Date Collected: | 10/6/2011 14:00 | Matrix: | Air |
| Sample ID: | IN-SITE1-02-10611 | Date Received: | 10/7/2011 09:15 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 1.6 | ppbv | 1,2,3 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Acrylonitrile | 0.23J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| tert-Amyl methyl ether | 0.24J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Benzene | 0.29J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Benzyl Chloride | 0.21J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Bromodichloromethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Bromoform | 0.20J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Bromomethane | 0.28J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,3-Butadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| n-Butane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 2-Butanone | 0.74 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| tert-Butyl Alcohol | 0.25J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Carbon Disulfide | 0.33J | ppbv | 3 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Carbon Tetrachloride | 0.47 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chlorobenzene | 0.26J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chlorodibromomethane | 0.23J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chloroethane | 0.32J | ppbv | 7 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chloroform | 1.4 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chloromethane | 0.33J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 3-Chloro-1-propene | 0.22J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| o-Chlorotoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Cyclohexane | 0.22J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2-Dibromoethane | 0.22J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2-Dichlorobenzene | 0.25J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,3-Dichlorobenzene | 0.24J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,4-Dichlorobenzene | 0.22J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Dichlorodifluoromethane | 0.64 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1-Dichloroethane | 5.1 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2-Dichloroethane | 0.47 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1-Dichloroethene | 0.47 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| cis-1,2-Dichloroethene | 53 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| trans-1,2-Dichloroethene | 0.80 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2-Dichloropropane | 0.24J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| cis-1,3-Dichloropropene | 0.22J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| trans-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,3-Dichloropropene, Total | 0.40U | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Diisopropyl ether | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,4-Dioxane | 0.31J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Ethanol | 0.84 | ppbv | 4,5 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Ethyl Acetate | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Ethyl tert-butyl ether | 0.23J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| Lab ID: | 9931150002 | | | Date Collected: | 10/6/2011 14:00 | | Matrix: | Air | | | |
|----------------------------|--------------------------|-------|-----------|-----------------|-----------------|------|---------|----------|----------------|-----|------|
| Sample ID: | IN-SITE1-02-10611 | | | Date Received: | 10/7/2011 09:15 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.22J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 4-Ethyltoluene | 0.23J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Freon 113 | 7.2 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Freon-114 | 0.27J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Heptane | 0.29J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Hexachlorobutadiene | 0.26J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Hexane | 0.52 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 2-Hexanone | 0.22J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Isopropyl Alcohol | 0.90 | ppbv | 3 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Isopropylbenzene | 0.23J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| p-Isopropyltoluene | 0.21J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Methyl methacrylate | 0.21J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Methyl t-Butyl Ether | 0.38J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.24J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Methylene Chloride | 1.4 | ppbv | 3,6 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Naphthalene | 0.21J | ppbv | 3 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| iso-Octane | 0.27J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| n-Propylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Propylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Styrene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.25J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Tetrachloroethene | 140 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/12/11 22:45 | ECB | A |
| Tetrahydrofuran | 1.5 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Toluene | 0.33J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Total Xylenes | 0.75J | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.21J | ppbv | 3 | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1,1-Trichloroethane | 49 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1,2-Trichloroethane | 0.40J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Trichloroethene | 200 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/12/11 22:45 | ECB | A |
| Trichlorofluoromethane | 0.63 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2,3-Trichloropropane | 0.25J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.25J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.20J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.23J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Vinyl Acetate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Vinyl Bromide | 0.28J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Vinyl Chloride | 0.32J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| o-Xylene | 0.26J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 06:51 | ECB | A |
| mp-Xylene | 0.50J | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Acetone | 4 | ug/m3 | 1,2,3 | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Acrylonitrile | 0.5J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/14/11 06:51 | ECB | A |
| tert-Amyl methyl ether | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| | | | | | |
|------------|--------------------------|-----------------|-----------------|---------|-----|
| Lab ID: | 9931150002 | Date Collected: | 10/6/2011 14:00 | Matrix: | Air |
| Sample ID: | IN-SITE1-02-10611 | Date Received: | 10/7/2011 09:15 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|-----|-----|-----|--------|----------|----------------|-----|------|
| Benzene | 0.9J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Benzyl Chloride | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Bromodichloromethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Bromoform | 2J | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Bromomethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,3-Butadiene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/14/11 06:51 | ECB | A |
| n-Butane | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 2-Butanone | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:51 | ECB | A |
| tert-Butyl Alcohol | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Carbon Disulfide | 1J | ug/m3 | 3 | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Carbon Tetrachloride | 3 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chlorobenzene | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chlorodibromomethane | 2J | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chloroethane | 0.8J | ug/m3 | 7 | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chloroform | 7 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Chloromethane | 0.7J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 3-Chloro-1-propene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:51 | ECB | A |
| o-Chlorotoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Cyclohexane | 0.8J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2-Dibromoethane | 2J | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2-Dichlorobenzene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,3-Dichlorobenzene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,4-Dichlorobenzene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1-Dichloroethane | 21 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2-Dichloroethane | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1-Dichloroethene | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| cis-1,2-Dichloroethene | 210 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| trans-1,2-Dichloroethene | 3 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2-Dichloropropane | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:51 | ECB | A |
| cis-1,3-Dichloropropene | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:51 | ECB | A |
| trans-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,3-Dichloropropene, Total | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Diisopropyl ether | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,4-Dioxane | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Ethanol | 2 | ug/m3 | 4,5 | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Ethyl Acetate | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Ethyl tert-butyl ether | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Ethylbenzene | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 4-Ethyltoluene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Freon 113 | 55 | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Freon-114 | 2J | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| Lab ID: | 9931150002 | | | Date Collected: 10/6/2011 14:00 | | | Matrix: | Air | | | |
|-----------------------------|-------------------|--------------|------------------|---------------------------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | IN-SITE1-02-10611 | | | Date Received: 10/7/2011 09:15 | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Hexachlorobutadiene | 3J | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Hexane | 2 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 2-Hexanone | 0.9J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Isopropyl Alcohol | 2 | ug/m3 | 3 | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Isopropylbenzene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| p-Isopropyltoluene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Methyl Methacrylate | 0.8J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Methyl t-Butyl Ether | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Methylene Chloride | 5 | ug/m3 | 3,6 | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Naphthalene | 1J | ug/m3 | 3 | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| iso-Octane | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:51 | ECB | A |
| n-Propylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Propylene | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Styrene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 2J | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Tetrachloroethene | 950 | ug/m3 | | 14 | 7 | 7 | TO-15 | | 10/12/11 22:45 | ECB | A |
| Tetrahydrofuran | 5 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Toluene | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Total Xylenes | 3J | ug/m3 | | 5 | 3 | 3 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2,4-Trichlorobenzene | 2J | ug/m3 | 3 | 3 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1,1-Trichloroethane | 270 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,1,2-Trichloroethane | 2J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Trichloroethene | 1100 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 10/12/11 22:45 | ECB | A |
| Trichlorofluoromethane | 4 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2,3-Trichloropropane | 2J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2,4-Trimethylbenzene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,3,5-Trimethylbenzene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| 1,2,3-Trimethylbenzene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Vinyl Acetate | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Vinyl Bromide | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:51 | ECB | A |
| Vinyl Chloride | 0.8J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 06:51 | ECB | A |
| o-Xylene | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 06:51 | ECB | A |
| mp-Xylene | 2J | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/14/11 06:51 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 99 | % | | 70-130 | | | TO-15 | | 10/12/11 22:45 | ECB | A |
| 4-Bromofluorobenzene (S) | 99 | % | | 70-130 | | | TO-15 | | 10/14/11 06:51 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150002** Date Collected: 10/6/2011 14:00 Matrix: Air
Sample ID: **IN-SITE1-02-10611** Date Received: 10/7/2011 09:15

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| | | | | | |
|------------|-----------------------|-----------------|-----------------|---------|-----|
| Lab ID: | 9931150003 | Date Collected: | 10/6/2011 13:30 | Matrix: | Air |
| Sample ID: | EF-SITE1-10611 | Date Received: | 10/7/2011 09:15 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 3.4 | ppbv | 1,2,3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Acrylonitrile | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| tert-Amyl methyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Benzene | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Bromodichloromethane | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Bromoform | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Bromomethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,3-Butadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| n-Butane | 0.86 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 2-Butanone | 0.39 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| tert-Butyl Alcohol | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Carbon Disulfide | 0.27 | ppbv | 3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Carbon Tetrachloride | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chlorodibromomethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chloroethane | 0.12J | ppbv | 7 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chloroform | 0.78 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chloromethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 3-Chloro-1-propene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| o-Chlorotoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Cyclohexane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2-Dibromoethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2-Dichlorobenzene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,3-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,4-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Dichlorodifluoromethane | 0.45 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,1-Dichloroethane | 9.2 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2-Dichloroethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,1-Dichloroethene | 0.85 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| cis-1,2-Dichloroethene | 100 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/12/11 23:27 | ECB | A |
| trans-1,2-Dichloroethene | 1.0 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2-Dichloropropane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| cis-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| trans-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,3-Dichloropropene, Total | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,4-Dioxane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Ethanol | 0.77 | ppbv | 4,5 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Ethyl tert-butyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| Lab ID: | 9931150003 | | | Date Collected: | 10/6/2011 13:30 | | Matrix: | Air | | | |
|----------------------------|-----------------------|-------|-----------|-----------------|-----------------|------|---------|----------|----------------|-----|------|
| Sample ID: | EF-SITE1-10611 | | | Date Received: | 10/7/2011 09:15 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 4-Ethyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Freon 113 | 16 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Freon-114 | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Heptane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Hexachlorobutadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Hexane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 2-Hexanone | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Isopropyl Alcohol | 0.34 | ppbv | 3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Isopropylbenzene | 9.3 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| p-Isopropyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Methyl methacrylate | 0.25 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Methyl t-Butyl Ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Methylene Chloride | 0.27 | ppbv | 3,6 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Naphthalene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| iso-Octane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| n-Propylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Propylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Styrene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Tetrachloroethene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Tetrahydrofuran | 23 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Toluene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Total Xylenes | 0.30U | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,1,1-Trichloroethane | 64 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/12/11 23:27 | ECB | A |
| 1,1,2-Trichloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Trichloroethene | 1.2 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Trichlorofluoromethane | 0.41 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2,3-Trichloropropane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Vinyl Bromide | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Vinyl Chloride | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| o-Xylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/14/11 07:34 | ECB | A |
| mp-Xylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Acetone | 8 | ug/m3 | 1,2,3 | 0.5 | 0.2 | 0.2 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Acrylonitrile | 0.2J | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/14/11 07:34 | ECB | A |
| tert-Amyl methyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| Lab ID: | 9931150003 | | | Date Collected: | 10/6/2011 13:30 | | Matrix: | Air | | | |
|----------------------------|-----------------------|-------|-----------|-----------------|-----------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | EF-SITE1-10611 | | | Date Received: | 10/7/2011 09:15 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Bromodichloromethane | 0.7J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Bromoform | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Bromomethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,3-Butadiene | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/14/11 07:34 | ECB | A |
| n-Butane | 2 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 2-Butanone | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/14/11 07:34 | ECB | A |
| tert-Butyl Alcohol | 0.3J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Carbon Disulfide | 0.8 | ug/m3 | 3 | 0.6 | 0.3 | 0.3 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Carbon Tetrachloride | 1J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chlorobenzene | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chlorodibromomethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chloroethane | 0.3J | ug/m3 | 7 | 0.5 | 0.3 | 0.3 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chloroform | 4 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Chloromethane | 0.3J | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 3-Chloro-1-propene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/14/11 07:34 | ECB | A |
| o-Chlorotoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Cyclohexane | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2-Dibromoethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2-Dichlorobenzene | 0.6J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,3-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,4-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Dichlorodifluoromethane | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,1-Dichloroethane | 37 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2-Dichloroethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,1-Dichloroethene | 3 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| cis-1,2-Dichloroethene | 400 | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/12/11 23:27 | ECB | A |
| trans-1,2-Dichloroethene | 4 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2-Dichloropropane | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| cis-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| trans-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,3-Dichloropropene, Total | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,4-Dioxane | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Ethanol | 1 | ug/m3 | 4,5 | 0.4 | 0.2 | 0.2 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Ethyl tert-butyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Ethylbenzene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 4-Ethyltoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Freon 113 | 120 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Freon-114 | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 07:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

| Lab ID: | 9931150003 | Date Collected: 10/6/2011 13:30 | | | | | Matrix: | Air | | | |
|----------------------------|-----------------------|---------------------------------|-----------|--------|-----|-----|---------|----------|----------------|-----|------|
| Sample ID: | EF-SITE1-10611 | Date Received: 10/7/2011 09:15 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Hexachlorobutadiene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Hexane | 0.4J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 2-Hexanone | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Isopropyl Alcohol | 0.8 | ug/m3 | 3 | 0.5 | 0.2 | 0.2 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Isopropylbenzene | 46 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| p-Isopropyltoluene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Methyl Methacrylate | 1 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Methyl t-Butyl Ether | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Methylene Chloride | 1 | ug/m3 | 3,6 | 0.7 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Naphthalene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| iso-Octane | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| n-Propylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Propylene | 0.2U | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Styrene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Tetrachloroethene | 0.7J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Tetrahydrofuran | 68 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Toluene | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Total Xylenes | 1U | ug/m3 | 3 | 1 | 1 | 1 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,1,1-Trichloroethane | 350 | ug/m3 | | 11 | 6 | 6 | TO-15 | | 10/12/11 23:27 | ECB | A |
| 1,1,2-Trichloroethane | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Trichloroethene | 6 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Trichlorofluoromethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2,3-Trichloropropane | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Vinyl Bromide | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Vinyl Chloride | 0.4J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/14/11 07:34 | ECB | A |
| o-Xylene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/14/11 07:34 | ECB | A |
| mp-Xylene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/14/11 07:34 | ECB | A |
| Surrogate Recoveries | Results | Units | Footnotes | Limits | | | Method | Prepared | Analyzed | By | Cntr |
| 4-Bromofluorobenzene (S) | 100 | % | | 70-130 | | | TO-15 | | 10/12/11 23:27 | ECB | A |
| 4-Bromofluorobenzene (S) | 99 | % | | 70-130 | | | TO-15 | | 10/14/11 07:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

Lab ID: **9931150003** Date Collected: 10/6/2011 13:30 Matrix: Air
Sample ID: **EF-SITE1-10611** Date Received: 10/7/2011 09:15

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

A handwritten signature in black ink, appearing to read 'Anna G Milliken'.
Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9931150 HNW025|NWIRP Bethpage GM-38

PARAMETER QUALIFIERS\FLAGS

- [1] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Acetone. The % Recovery was reported as 142 and the control limits were 60 to 140.
- [2] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Acetone. The % Recovery was reported as 141 and the control limits were 60 to 140.
- [3] This compound was detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.
- [4] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Ethanol. The % Recovery was reported as 185 and the control limits were 60 to 140.
- [5] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Ethanol. The RPD was reported as 45 and the upper control limit is 30.
- [6] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 143 and the control limits were 60 to 140.
- [7] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Chloroethane. The % Recovery was reported as 142 and the control limits were 60 to 140.

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| CHAIN OF CUSTODY / REQUEST FOR ANALYSIS | | ANALYSES/METHOD REQUESTED | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK. | | | | | | | | | | | | | |
| Co. Name: H&S Environmental, Inc. Phone: 508.366.7442 Contact (Report to): Jen Good Address: 160 E. Main St., Suite 2F Westborough, MA 01581 | | Bill To [If different than Report to]: Same Project Name#: NWIRP Bathpage Site 1 Monthly Vapor ALSI Quote #: P08:2024-003 TAT: <input checked="" type="checkbox"/> Normal/Standard TAT is 10-12 business days. Date Required: _____ Ruth Subject to ALSI approval and surcharges. Approved By: _____ Email? <input checked="" type="checkbox"/> Y jgood@hsenv.com Fax? <input type="checkbox"/> Y No.: _____ | | | | | | | | | | | |
| | | VOCs (TO-15) - full list Matrix: G or C Enter Number of Containers Per Analysis | | | | | | | | | | | |
| | | Sample Description/Location COC Comments Sample Date Military Time <small>(as it will appear on the lab report)</small> | | | | | | | | | | | |
| | | 1 IN-Site 1 -01 -10611 Can # 1633 10/6 1330 G AIR 1 2 IN-Site 1 -02 -10611 Can # 1838 10/6 1400 G AIR 1 3 EF-Site 1 - 10611 Can # 1797 10/6 1330 G AIR 1 4 5 6 7 8 | | | | | | | | | | | |
| | | SAMPLED BY (Please Print): G. Gangeri LOGGED BY (signature): REVIEWED BY (signature): Enquisted Company Name: Enquisted Date: 10/6/14 Time: 14:00 1 2 3 4 5 6 7 8 | | | | | | | | | | | |
| | | Standard Deliverables Standard C.L.P. like NR Reduced NR Full Date Delivered: 10/7/14 Date: 10/7/14 Time: 09:15 Lab: ALS Lab: ALS Lab: ALS Lab Type: Groundwater Lab Type: Groundwater Lab Type: Groundwater Form: PWSID Form: PWSID Form: PWSID Other: _____ | | | | | | | | | | | |
| | | State Samples Collected In? SDWA Form: <input checked="" type="checkbox"/> MD <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> PA Other: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input checked="" type="checkbox"/> PA <input type="checkbox"/> | | | | | | | | | | | |
| | | ALS FIELD SERVICES <input type="checkbox"/> Pickup <input type="checkbox"/> Lab <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Retail Equipment <input type="checkbox"/> Other: _____ | | | | | | | | | | | |
| | | DOB Client Review? | | | | | | | | | | | |
| | | * Matrix: Air=Air; DW=Drinking Water; GW=Groundwater; Soi=Soil; Sl=Sludge; Li=Liquid; Oil=Oil; Pl=Plastic **Container Type: AG-Amber Glass; CG-Clear Glass; PL=Plastic ***Customer Copy copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY | | | | | | | | | | | |

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ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: HIS ENVIRONMENTAL

Project Name/#: NWS IRR. BETHPAGE PAGE #1

Horizon WO#: 9931150

Date/Time received: 10/7/11 0915

Sample Delivery Group ID:

Received By: S. MILLER

Log In By/Date: Lodie Stantz 10/10/11

Project Manager Review (date)

(signature) Lodie Stantz

(signature)

Number of Shipping containers received: 1

Courier: B750 4250 4517

Circle the response below as appropriate.

1. Did kit(s) come with a shipping slip (airbill, etc.)? YES NO NA
If YES, enter airbill numbers: _____

Shipping Container Information:

2. Were shipping containers received without signs of tampering? YES NO NA
Comments: _____

3. Were custody seals present and intact? See b(7)(1) YES NO NA

4. Were custody seals numbers present? YES NO NA

List Custody Seal Numbers: _____

Sample Condition:

5. Were sample containers received intact without signs of tampering? YES NO NA
Comments: _____

Chain of Custody:

6. Did COC arrive with the samples? YES NO NA
7. Do sample ID/Sample Description(s) match samples submitted? YES NO NA
8. Is date and time of collection listed on the COC for all samples? YES NO NA
9. Is identification of sampler on COC? YES NO NA
10. Are requested test method(s) on COC? YES NO NA
11. Are necessary signatures on COC? YES NO NA
12. Was Internal COC initiated? (should always be YES) YES NO NA

Sample Integrity Usability:

13. Do sample containers match the COC? YES NO NA
14. Were sample canisters received within 15 days of shipment to client? YES NO NA

Anomalies or Non-Conformances:

Rev. 2/2011

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November 2011 Monthly Data

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November 18, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name: **NWIRP Bethpage - GM-38**

Workorder: **9936197**

Purchase Order:

Workorder ID: **HNW031|NWIRP Bethpage - GM-38**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 05, 2011.

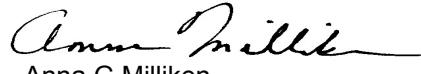
The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Anna G Milliken
Technical Manager

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SAMPLE SUMMARY

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Discard Date: 01/17/2012

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|-------------------------|--------|----------------|---------------|--------------|
| 9936197001 | SVE-Site 1-TI-110411 | Air | 11/4/11 13:00 | 11/5/11 08:53 | Customer |
| 9936197002 | SVE-Site 1-TE110411 | Air | 11/4/11 13:00 | 11/5/11 08:53 | Customer |
| 9936197003 | SVE-Site 1-TI-DUP110411 | Air | 11/4/11 13:30 | 11/5/11 08:53 | Customer |

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

| | |
|--------|--|
| J, B | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| | | | | | |
|------------|-----------------------------|-----------------|-----------------|---------|-----|
| Lab ID: | 9936197001 | Date Collected: | 11/4/2011 13:00 | Matrix: | Air |
| Sample ID: | SVE-Site 1-TI-110411 | Date Received: | 11/5/2011 08:53 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 3.2 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Acrylonitrile | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| tert-Amyl methyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Benzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Benzyl Chloride | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Bromodichloromethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Bromoform | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Bromomethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,3-Butadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| n-Butane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 2-Butanone | 3.1 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| tert-Butyl Alcohol | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Carbon Disulfide | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Carbon Tetrachloride | 0.31J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Chlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Chlorodibromomethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Chloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Chloroform | 0.73 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Chloromethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 3-Chloro-1-propene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| o-Chlorotoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Cyclohexane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2-Dibromoethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,3-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,4-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Dichlorodifluoromethane | 0.46 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,1-Dichloroethane | 4.9 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2-Dichloroethane | 0.21J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,1-Dichloroethene | 0.85 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| cis-1,2-Dichloroethene | 44 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| trans-1,2-Dichloroethene | 0.54 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2-Dichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| cis-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| trans-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,3-Dichloropropene, Total | 0.40U | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Diisopropyl ether | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,4-Dioxane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Ethanol | 0.98 | ppbv | 1 | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Ethyl Acetate | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Ethyl tert-butyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| Lab ID: | 9936197001 | | | Date Collected: | 11/4/2011 13:00 | | Matrix: | Air | | | |
|----------------------------|-----------------------------|-------|-----------|-----------------|-----------------|------|---------|----------|----------------|-----|------|
| Sample ID: | SVE-Site 1-TI-110411 | | | Date Received: | 11/5/2011 08:53 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 4-Ethyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Freon 113 | 11 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Freon-114 | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Heptane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Hexachlorobutadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Hexane | 0.55 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 2-Hexanone | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Isopropyl Alcohol | 0.38J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Isopropylbenzene | 1.8 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| p-Isopropyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Methyl methacrylate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Methyl t-Butyl Ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Methylene Chloride | 1.0 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Naphthalene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| iso-Octane | 0.99 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| n-Propylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Propylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Styrene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Tetrachloroethene | 140 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 11/16/11 03:32 | ECB | A |
| Tetrahydrofuran | 7.7 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Toluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Total Xylenes | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,1,1-Trichloroethane | 49 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,1,2-Trichloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Trichloroethene | 220 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 11/16/11 03:32 | ECB | A |
| Trichlorofluoromethane | 1.9 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2,3-Trichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Vinyl Acetate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Vinyl Bromide | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Vinyl Chloride | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| o-Xylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:12 | ECB | A |
| mp-Xylene | 0.40U | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Acetone | 8 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Acrylonitrile | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:12 | ECB | A |
| tert-Amyl methyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 00:12 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| Lab ID: | 9936197001 | | | Date Collected: | 11/4/2011 13:00 | | Matrix: | Air |
|----------------------------|-----------------------------|-------|-----------|-----------------|-----------------|-----|---------|----------------------|
| Sample ID: | SVE-Site 1-TI-110411 | | | Date Received: | 11/5/2011 08:53 | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared |
| Benzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 11/18/11 00:12 ECB A |
| Benzyl Chloride | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| Bromodichloromethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| Bromoform | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 11/18/11 00:12 ECB A |
| Bromomethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 11/18/11 00:12 ECB A |
| 1,3-Butadiene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | 11/18/11 00:12 ECB A |
| n-Butane | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | 11/18/11 00:12 ECB A |
| 2-Butanone | 9 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 11/18/11 00:12 ECB A |
| tert-Butyl Alcohol | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 11/18/11 00:12 ECB A |
| Carbon Disulfide | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 11/18/11 00:12 ECB A |
| Carbon Tetrachloride | 2J | ug/m3 | | 3 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| Chlorobenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 11/18/11 00:12 ECB A |
| Chlorodibromomethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | 11/18/11 00:12 ECB A |
| Chloroethane | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | 11/18/11 00:12 ECB A |
| Chloroform | 4 | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| Chloromethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 11/18/11 00:12 ECB A |
| 3-Chloro-1-propene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 11/18/11 00:12 ECB A |
| o-Chlorotoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| Cyclohexane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | 11/18/11 00:12 ECB A |
| 1,2-Dibromoethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | 11/18/11 00:12 ECB A |
| 1,2-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| 1,3-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| 1,4-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| Dichlorodifluoromethane | 2 | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| 1,1-Dichloroethane | 20 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 11/18/11 00:12 ECB A |
| 1,2-Dichloroethane | 0.9J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 11/18/11 00:12 ECB A |
| 1,1-Dichloroethene | 3 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 11/18/11 00:12 ECB A |
| cis-1,2-Dichloroethene | 170 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 11/18/11 00:12 ECB A |
| trans-1,2-Dichloroethene | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 11/18/11 00:12 ECB A |
| 1,2-Dichloropropane | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 11/18/11 00:12 ECB A |
| cis-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 11/18/11 00:12 ECB A |
| trans-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 11/18/11 00:12 ECB A |
| 1,3-Dichloropropene, Total | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 11/18/11 00:12 ECB A |
| Diisopropyl ether | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| 1,4-Dioxane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | 11/18/11 00:12 ECB A |
| Ethanol | 2 | ug/m3 | 1 | 0.8 | 0.4 | 0.4 | TO-15 | 11/18/11 00:12 ECB A |
| Ethyl Acetate | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| Ethyl tert-butyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 11/18/11 00:12 ECB A |
| Ethylbenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 11/18/11 00:12 ECB A |
| 4-Ethyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |
| Freon 113 | 82 | ug/m3 | | 3 | 2 | 2 | TO-15 | 11/18/11 00:12 ECB A |
| Freon-114 | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | 11/18/11 00:12 ECB A |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| Lab ID: | 9936197001 | Date Collected: 11/4/2011 13:00 | | | | | Matrix: | Air | | | |
|----------------------------|-----------------------------|---------------------------------|-----------|--------|-----|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-Site 1-TI-110411 | Date Received: 11/5/2011 08:53 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Hexachlorobutadiene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Hexane | 2 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 2-Hexanone | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Isopropyl Alcohol | 0.9J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Isopropylbenzene | 9 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| p-Isopropyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Methyl Methacrylate | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Methyl t-Butyl Ether | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Methylene Chloride | 3 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Naphthalene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| iso-Octane | 5 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 00:12 | ECB | A |
| n-Propylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Propylene | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Styrene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Tetrachloroethene | 940 | ug/m3 | | 14 | 7 | 7 | TO-15 | | 11/16/11 03:32 | ECB | A |
| Tetrahydrofuran | 23 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Toluene | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Total Xylenes | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2,4-Trichlorobenzene | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,1,1-Trichloroethane | 270 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,1,2-Trichloroethane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Trichloroethene | 1200 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 11/16/11 03:32 | ECB | A |
| Trichlorofluoromethane | 11 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2,3-Trichloropropane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2,4-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,3,5-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| 1,2,3-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Vinyl Acetate | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Vinyl Bromide | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Vinyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:12 | ECB | A |
| o-Xylene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 00:12 | ECB | A |
| mp-Xylene | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 11/18/11 00:12 | ECB | A |
| Surrogate Recoveries | Results | Units | Footnotes | Limits | | | Method | Prepared | Analyzed | By | Cntr |
| 4-Bromofluorobenzene (S) | 96 | % | | 70-130 | | | TO-15 | | 11/16/11 03:32 | ECB | A |
| 4-Bromofluorobenzene (S) | 99 | % | | 70-130 | | | TO-15 | | 11/18/11 00:12 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197001** Date Collected: 11/4/2011 13:00 Matrix: Air
Sample ID: **SVE-Site 1-TI-110411** Date Received: 11/5/2011 08:53

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| | | | | | |
|------------|----------------------------|-----------------|-----------------|---------|-----|
| Lab ID: | 9936197002 | Date Collected: | 11/4/2011 13:00 | Matrix: | Air |
| Sample ID: | SVE-Site 1-TE110411 | Date Received: | 11/5/2011 08:53 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 2.5 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| tert-Amyl methyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Benzene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Bromodichloromethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Bromoform | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Bromomethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,3-Butadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| n-Butane | 0.60 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 2-Butanone | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| tert-Butyl Alcohol | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Carbon Disulfide | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Carbon Tetrachloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chlorodibromomethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chloroform | 0.64 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chloromethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 3-Chloro-1-propene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| o-Chlorotoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Cyclohexane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2-Dibromoethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,3-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,4-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Dichlorodifluoromethane | 0.45 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1-Dichloroethane | 7.1 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2-Dichloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1-Dichloroethene | 0.56 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| cis-1,2-Dichloroethene | 50 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 11/16/11 04:18 | ECB | A |
| trans-1,2-Dichloroethene | 0.71 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2-Dichloropropane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| cis-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| trans-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,3-Dichloropropene, Total | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,4-Dioxane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Ethanol | 1.1 | ppbv | 1 | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Ethyl tert-butyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| Lab ID: | 9936197002 | Date Collected: 11/4/2011 13:00 | | | | | Matrix: | Air | | | |
|----------------------------|----------------------------|---------------------------------|-----------|------|------|------|---------|----------|----------------|-----|------|
| Sample ID: | SVE-Site 1-TE110411 | Date Received: 11/5/2011 08:53 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 4-Ethyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Freon 113 | 12 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Freon-114 | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Heptane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Hexachlorobutadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Hexane | 0.99 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 2-Hexanone | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Isopropyl Alcohol | 0.37 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Isopropylbenzene | 0.78 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| p-Isopropyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Methyl methacrylate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Methyl t-Butyl Ether | 0.27 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Methylene Chloride | 6.6 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Naphthalene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| iso-Octane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| n-Propylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Propylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Styrene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Tetrachloroethene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Tetrahydrofuran | 16 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Toluene | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Total Xylenes | 0.30U | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1,1-Trichloroethane | 34 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1,2-Trichloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Trichloroethene | 1.6 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Trichlorofluoromethane | 0.35 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2,3-Trichloropropane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Vinyl Bromide | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Vinyl Chloride | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| o-Xylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 11/18/11 00:54 | ECB | A |
| mp-Xylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Acetone | 6 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 11/18/11 00:54 | ECB | A |
| tert-Amyl methyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| Lab ID: | 9936197002 | | | Date Collected: | 11/4/2011 13:00 | | Matrix: | Air | | | |
|----------------------------|----------------------------|-------|-----------|-----------------|-----------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-Site 1-TE110411 | | | Date Received: | 11/5/2011 08:53 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.3J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Bromodichloromethane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Bromoform | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Bromomethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,3-Butadiene | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 11/18/11 00:54 | ECB | A |
| n-Butane | 1 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 2-Butanone | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:54 | ECB | A |
| tert-Butyl Alcohol | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Carbon Disulfide | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Carbon Tetrachloride | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chlorobenzene | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chlorodibromomethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chloroethane | 0.3U | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chloroform | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Chloromethane | 0.2J | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 3-Chloro-1-propene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:54 | ECB | A |
| o-Chlorotoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Cyclohexane | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2-Dibromoethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,3-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,4-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Dichlorodifluoromethane | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1-Dichloroethane | 29 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2-Dichloroethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1-Dichloroethene | 2 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| cis-1,2-Dichloroethene | 200 | ug/m3 | | 8 | 4 | 4 | TO-15 | | 11/16/11 04:18 | ECB | A |
| trans-1,2-Dichloroethene | 3 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2-Dichloropropane | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| cis-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| trans-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,3-Dichloropropene, Total | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,4-Dioxane | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Ethanol | 2 | ug/m3 | 1 | 0.4 | 0.2 | 0.2 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Ethyl tert-butyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Ethylbenzene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 4-Ethyltoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Freon 113 | 95 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Freon-114 | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 00:54 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| Lab ID: | 9936197002 | Date Collected: 11/4/2011 13:00 | | | | | Matrix: | Air | | | |
|----------------------------|----------------------------|---------------------------------|-----------|--------|-----|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-Site 1-TE110411 | Date Received: 11/5/2011 08:53 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Hexachlorobutadiene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Hexane | 3 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 2-Hexanone | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Isopropyl Alcohol | 0.9 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Isopropylbenzene | 4 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| p-Isopropyltoluene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Methyl Methacrylate | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Methyl t-Butyl Ether | 1 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Methylene Chloride | 23 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Naphthalene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| iso-Octane | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| n-Propylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Propylene | 0.2U | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Styrene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Tetrachloroethene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Tetrahydrofuran | 48 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Toluene | 0.7J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Total Xylenes | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1,1-Trichloroethane | 190 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,1,2-Trichloroethane | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Trichloroethene | 9 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Trichlorofluoromethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2,3-Trichloropropane | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Vinyl Bromide | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Vinyl Chloride | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 11/18/11 00:54 | ECB | A |
| o-Xylene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 11/18/11 00:54 | ECB | A |
| mp-Xylene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 00:54 | ECB | A |
| Surrogate Recoveries | Results | Units | Footnotes | Limits | | | Method | Prepared | Analyzed | By | Cntr |
| 4-Bromofluorobenzene (S) | 100 | % | | 70-130 | | | TO-15 | | 11/16/11 04:18 | ECB | A |
| 4-Bromofluorobenzene (S) | 99 | % | | 70-130 | | | TO-15 | | 11/18/11 00:54 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197002** Date Collected: 11/4/2011 13:00 Matrix: Air
Sample ID: **SVE-Site 1-TE110411** Date Received: 11/5/2011 08:53

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

Anna G Milliken
Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| | | | | | |
|------------|--------------------------------|-----------------|-----------------|---------|-----|
| Lab ID: | 9936197003 | Date Collected: | 11/4/2011 13:30 | Matrix: | Air |
| Sample ID: | SVE-Site 1-TI-DUP110411 | Date Received: | 11/5/2011 08:53 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 2.0 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Acrylonitrile | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| tert-Amyl methyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Benzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Benzyl Chloride | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Bromodichloromethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Bromoform | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Bromomethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,3-Butadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| n-Butane | 0.53 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 2-Butanone | 2.8 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| tert-Butyl Alcohol | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Carbon Disulfide | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Carbon Tetrachloride | 0.39J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chlorodibromomethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chloroform | 0.78 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chloromethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 3-Chloro-1-propene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| o-Chlorotoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Cyclohexane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2-Dibromoethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,3-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,4-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Dichlorodifluoromethane | 0.51 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1-Dichloroethane | 5.1 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2-Dichloroethane | 0.25J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1-Dichloroethene | 0.89 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| cis-1,2-Dichloroethene | 45 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| trans-1,2-Dichloroethene | 0.62 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2-Dichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| cis-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| trans-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,3-Dichloropropene, Total | 0.40U | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Diisopropyl ether | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,4-Dioxane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Ethanol | 0.83 | ppbv | 1 | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Ethyl Acetate | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Ethyl tert-butyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| Lab ID: | 9936197003 | | | Date Collected: | 11/4/2011 13:30 | | Matrix: | Air | | | |
|----------------------------|--------------------------------|-------|-----------|-----------------|-----------------|------|---------|----------|----------------|-----|------|
| Sample ID: | SVE-Site 1-TI-DUP110411 | | | Date Received: | 11/5/2011 08:53 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 4-Ethyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Freon 113 | 11 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Freon-114 | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Heptane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Hexachlorobutadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Hexane | 0.56 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 2-Hexanone | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Isopropyl Alcohol | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Isopropylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| p-Isopropyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Methyl methacrylate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Methyl t-Butyl Ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Methylene Chloride | 0.84 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Naphthalene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| iso-Octane | 1.0 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| n-Propylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Propylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Styrene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Tetrachloroethene | 140 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 11/16/11 05:04 | ECB | A |
| Tetrahydrofuran | 7.7 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Toluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Total Xylenes | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1,1-Trichloroethane | 52 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1,2-Trichloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Trichloroethene | 210 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 11/16/11 05:04 | ECB | A |
| Trichlorofluoromethane | 2.1 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2,3-Trichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Vinyl Acetate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Vinyl Bromide | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Vinyl Chloride | 0.23J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| o-Xylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 11/18/11 01:36 | ECB | A |
| mp-Xylene | 0.40U | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Acetone | 5 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Acrylonitrile | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 11/18/11 01:36 | ECB | A |
| tert-Amyl methyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| Lab ID: | 9936197003 | | | Date Collected: | 11/4/2011 13:30 | | Matrix: | Air | | | |
|----------------------------|--------------------------------|-------|-----------|-----------------|-----------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-Site 1-TI-DUP110411 | | | Date Received: | 11/5/2011 08:53 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Benzyl Chloride | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Bromodichloromethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Bromoform | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Bromomethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,3-Butadiene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 11/18/11 01:36 | ECB | A |
| n-Butane | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 2-Butanone | 8 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 01:36 | ECB | A |
| tert-Butyl Alcohol | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Carbon Disulfide | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Carbon Tetrachloride | 2J | ug/m3 | | 3 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chlorobenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chlorodibromomethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chloroethane | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chloroform | 4 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Chloromethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 3-Chloro-1-propene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 01:36 | ECB | A |
| o-Chlorotoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Cyclohexane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2-Dibromoethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,3-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,4-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1-Dichloroethane | 21 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2-Dichloroethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1-Dichloroethene | 4 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| cis-1,2-Dichloroethene | 180 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| trans-1,2-Dichloroethene | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2-Dichloropropane | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 01:36 | ECB | A |
| cis-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 01:36 | ECB | A |
| trans-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,3-Dichloropropene, Total | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Diisopropyl ether | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,4-Dioxane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Ethanol | 2 | ug/m3 | 1 | 0.8 | 0.4 | 0.4 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Ethyl Acetate | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Ethyl tert-butyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Ethylbenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 4-Ethyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Freon 113 | 86 | ug/m3 | | 3 | 2 | 2 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Freon-114 | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

| Lab ID: | 9936197003 | | | Date Collected: 11/4/2011 13:30 | | | Matrix: | Air | | | |
|-----------------------------|--------------------------------|--------------|------------------|---------------------------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-Site 1-TI-DUP110411 | | | Date Received: 11/5/2011 08:53 | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Hexachlorobutadiene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Hexane | 2 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 2-Hexanone | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Isopropyl Alcohol | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Isopropylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| p-Isopropyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Methyl Methacrylate | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Methyl t-Butyl Ether | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Methylene Chloride | 3 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Naphthalene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| iso-Octane | 5 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 01:36 | ECB | A |
| n-Propylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Propylene | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Styrene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Tetrachloroethene | 920 | ug/m3 | | 14 | 7 | 7 | TO-15 | | 11/16/11 05:04 | ECB | A |
| Tetrahydrofuran | 23 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Toluene | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Total Xylenes | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2,4-Trichlorobenzene | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1,1-Trichloroethane | 280 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,1,2-Trichloroethane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Trichloroethene | 1100 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 11/16/11 05:04 | ECB | A |
| Trichlorofluoromethane | 12 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2,3-Trichloropropane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2,4-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,3,5-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| 1,2,3-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Vinyl Acetate | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Vinyl Bromide | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 01:36 | ECB | A |
| Vinyl Chloride | 0.6J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 11/18/11 01:36 | ECB | A |
| o-Xylene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 11/18/11 01:36 | ECB | A |
| mp-Xylene | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 11/18/11 01:36 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 100 | % | | 70-130 | | | TO-15 | | 11/16/11 05:04 | ECB | A |
| 4-Bromofluorobenzene (S) | 101 | % | | 70-130 | | | TO-15 | | 11/18/11 01:36 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

Lab ID: **9936197003** Date Collected: 11/4/2011 13:30 Matrix: Air
Sample ID: **SVE-Site 1-TI-DUP110411** Date Received: 11/5/2011 08:53

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9936197 HNW031|NWIRP Bethpage - GM-38

PARAMETER QUALIFIERS\FLAGS

- [1] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Ethanol. The % Recovery was reported as 157 and the control limits were 60 to 140.

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AIR ANALYSIS CHAIN-OF-CUSTODY/FIELD TEST DATA SHEET

ALL SHADED AREAS MUST BE COMPLETED BY THE
CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

1. CLIENT INFORMATION

| | |
|----------------------|---|
| Client Name/Address: | HTS Environmental |
| Contact: | Jen Good |
| Phone: | 508 366-7442 |
| Project Name/#: | NWWR Bethpage Site 1 |
| Bill To: | |
| TAT | Normal Standard TAT is 10-12 business days. Rush—TAT Subject to ALS approval and surcharges. |
| Date Required: | |
| Email? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Fax? | |

SAMPLE INFORMATION FOR TO-15

| Sample Description/Location (as it will appear on the lab report) | Sample Type* Choose one: Indoor air Outdoor air Soil-surface soil Soil-depth soil | Sample Date | Start Time | Stop Time | Temp Deg C | Flow Controller No. | Canister Pressure (mbar) | Canister Certification File | Canister Pressure (mbar) | Out | In | Setpoint (ml/min) | Flow Controller |
|--|--|-------------|------------|-----------|------------|---------------------|--------------------------|-----------------------------|--------------------------|-----|----|-------------------|-----------------|
| 1 SVE - Site 1 - TE - 10411 | 11/01/12 13:30 | X | 13:41 | | 30 | 7316777 | 30 | -5 | | | | | |
| 2 SVE - Site 1 - TE - 10411 | 11/01/12 13:30 | X | 15:13 | | 30 | 7308369 | 30 | -10 | | | | | |
| 3 SVE - Site 1 - TE - 10411 | 11/01/12 13:30 | X | 13:47 | | 30 | 7286477 | 26 | -5 | | | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |

Phone: 1-717-944-5541

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETON, PA 17057

| | |
|-------------------|----|
| COC | of |
| | |
| * 9 9 3 6 1 9 7 * | |

RECEIVING INFORMATION:

| | | | |
|------------------------------|-----------------------------|-----------------------------|-------------------------------------|
| 1. To/Is | ✓ <i>ALS</i> | COC Analysis Signature: | <i>Jen Good</i> |
| 2. List | ✓ <i>1</i> | COC Complete/Accurate? | <input checked="" type="checkbox"/> |
| 3. Other | | Labels Complete/Accurate? | <input checked="" type="checkbox"/> |
| 4. Name: | <i>Erin Crowley</i> | Cont. in Good Cond? | <input checked="" type="checkbox"/> |
| 5. Title: | <i>Site Manager Analyst</i> | Custody Seals Present? | <input checked="" type="checkbox"/> |
| 6. Custody Sealed Date/Time: | <i>11/01/12 13:50</i> | Off (present) Seals intact? | <input checked="" type="checkbox"/> |
| 7. Date Shipped to Client: | <i>11/01/12 11:01</i> | Returned in ≤ 15 days? | <input checked="" type="checkbox"/> |
| 8. Custody Seal #s: | <i>47027</i> | Custody Seal #s: | <i>47027</i> |
| 9. Courier/Tracking #: | | Courier/Tracking #: | |
| 10. | | | |

3. LABORATORY CANISTER CERTIFIED BY:

| | | | |
|-----------------------------|-------------------------------------|--------------------------------|--|
| 1. Name: | <i>Erin Crowley</i> | 2. COC Analysis Signature: | <i>Jen Good</i> |
| 3. CANISTERS PREPARED BY: | <i>Erin Crowley</i> | 4. COC Complete/Accurate? | <input checked="" type="checkbox"/> |
| 5. Cont. in Good Cond? | <input checked="" type="checkbox"/> | 6. Labels Complete/Accurate? | <input checked="" type="checkbox"/> |
| 7. Custody Seals Present? | <input checked="" type="checkbox"/> | 8. Off (present) Seals intact? | <input checked="" type="checkbox"/> |
| 9. Returned in ≤ 15 days? | <input checked="" type="checkbox"/> | 10. Courier/Tracking #: | |
| 11. Date Shipped to Client: | <i>11/01/12 11:01</i> | 12. Custody Seal #s: | <i>47027</i> |
| 13. Courier/Tracking #: | | 14. Canister/Format Type: | <input checked="" type="checkbox"/> CLP-like |
| 15. Other: | | 16. Date: | <i>11/01/12</i> |
| 17. Time: | <i>13:53</i> | 18. Time: | <i>14:00</i> |

4. FIELD DATA SHEET

| | |
|------------------|-------------------|
| TO-15 FIELD DATA | LABORATORY RECORD |
|------------------|-------------------|

| | |
|-------------------------------|--|
| 1. State Samples Collected In | <input checked="" type="checkbox"/> NY |
| 2. Deliverables | <input type="checkbox"/> DOD |
| 3. EDDs-Format Type: | <input type="checkbox"/> TO-15 |
| 4. ALS Field Services: | <input type="checkbox"/> Pickup |
| 5. Other: | <input type="checkbox"/> Labor |

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Bethpage Site 1 Sampling Form

Sampler: TS (Sam)

Signature:

Date: 11/09/11

Note: all pressures in "H₂O unless otherwise specified

| Sampling Port | Can # | Reg # | P0 | P5 | P10 | P15 | P20 | P25 | P30 | System Pressure | Comments |
|---------------|-------|--------------|-----|-----|-----|-----|-----|-----|-----|---------------------|----------|
| T1 | 1371 | 7316777 | -25 | -20 | -16 | -15 | -10 | -5 | | 1" H ₂ O | |
| TE | 1513 | 7308291 | -30 | -30 | -25 | -20 | -15 | -10 | -5 | 0" H ₂ O | |
| AMB | | | | | | | | | | | |
| 101-I | | | | | | | | | | | |
| 101-D | | | | | | | | | | | |
| 102-I | | | | | | | | | | | |
| 102-D | | | | | | | | | | | |
| 103-I | | | | | | | | | | | |
| 103-D | | | | | | | | | | | |
| 104-I | | | | | | | | | | | |
| 104-D | | | | | | | | | | | |
| 105-I | | | | | | | | | | | |
| 105-D | | | | | | | | | | | |
| 106-I | | | | | | | | | | | |
| 106-D | | | | | | | | | | | |
| T1-DWP | 1267 | 73088 477 | -30 | -28 | -25 | -19 | -15 | -10 | -5 | 1" H ₂ O | |

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ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: H3SEnv.

Project Name/#: DWIRP Bethpage, Site 1

Horizon WO#:

Date/Time received: 11/15/11 0853

Sample Delivery Group ID:

Received By: Matthew Wolf

Log In By/Date:

Project Manager Review (date)

(signature) _____

(signature) _____

Number of Shipping containers received:

Courier: Fed Ex 8750 4200 4572

Circle the response below as appropriate.

1. Did kit(s) come with a shipping slip (airbill, etc.)? YES NO NA
If YES, enter airbill numbers: _____

Shipping Container Information:

2. Were shipping containers received without signs of tampering? YES NO NA
Comments: _____

3. Were custody seals present and intact? YES NO NA

4. Were custody seals numbers present? YES NO NA

List Custody Seal Numbers: _____

Sample Condition:

5. Were sample containers received intact without signs of tampering? YES NO NA
Comments: _____

Chain of Custody:

6. Did COC arrive with the samples? YES NO NA
7. Do sample ID/Sample Description(s) match samples submitted? YES NO NA
8. Is date and time of collection listed on the COC for all samples? YES NO NA
9. Is identification of sampler on COC? YES NO NA
10. Are requested test method(s) on COC? YES NO NA
11. Are necessary signatures on COC? YES NO NA
12. Was Internal COC initiated? (should always be YES) YES NO NA

Sample Integrity Usability:

13. Do sample containers match the COC? YES NO NA
14. Were sample canisters received within 15 days of shipment to client? YES NO NA

Anomalies or Non-Conformances:

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December 29, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name: **NWIRP Bethpage - GM-38**

Workorder: **9943262**

Purchase Order:

Workorder ID: **HNW037|NWIRP Bethpage - GM-38**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Saturday, December 17, 2011.

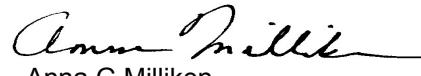
The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Anna G Milliken
Technical Manager

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SAMPLE SUMMARY

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Discard Date: 02/27/2012

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|-----------------|--------|----------------|----------------|--------------|
| 9943262001 | SVE-TI-121611 | Air | 12/16/11 11:30 | 12/17/11 09:20 | Customer |
| 9943262002 | SVE-TE-121611 | Air | 12/16/11 11:30 | 12/17/11 09:20 | Customer |
| 9943262003 | SVE-TI-121611-2 | Air | 12/16/11 12:00 | 12/17/11 09:20 | Customer |

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

| | |
|--------|--|
| J, B | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| | | | | | |
|------------|----------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9943262001 | Date Collected: | 12/16/2011 11:30 | Matrix: | Air |
| Sample ID: | SVE-TI-121611 | Date Received: | 12/17/2011 09:20 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 3.0 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Acrylonitrile | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| tert-Amyl methyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Benzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Benzyl Chloride | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Bromodichloromethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Bromoform | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Bromomethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,3-Butadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| n-Butane | 0.31J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 2-Butanone | 0.64 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| tert-Butyl Alcohol | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Carbon Disulfide | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Carbon Tetrachloride | 0.55 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Chlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Chlorodibromomethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Chloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Chloroform | 0.51 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Chloromethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 3-Chloro-1-propene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| o-Chlorotoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Cyclohexane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2-Dibromoethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,3-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,4-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Dichlorodifluoromethane | 0.62 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,1-Dichloroethane | 4.2 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2-Dichloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,1-Dichloroethene | 0.31J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| cis-1,2-Dichloroethene | 44 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| trans-1,2-Dichloroethene | 0.49 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2-Dichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| cis-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| trans-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,3-Dichloropropene, Total | 0.40U | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Diisopropyl ether | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,4-Dioxane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Ethanol | 1.5 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Ethyl Acetate | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Ethyl tert-butyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| Lab ID: | 9943262001 | Date Collected: 12/16/2011 11:30 | | | | | Matrix: | Air | | | |
|----------------------------|----------------------|----------------------------------|-----------|------|------|------|---------|----------|----------------|-----|------|
| Sample ID: | SVE-TI-121611 | Date Received: 12/17/2011 09:20 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 4-Ethyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Freon 113 | 7.1 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Freon-114 | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Heptane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Hexachlorobutadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Hexane | 0.21J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 2-Hexanone | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Isopropyl Alcohol | 0.47 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Isopropylbenzene | 1.8 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| p-Isopropyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Methyl methacrylate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Methyl t-Butyl Ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Methylene Chloride | 0.64 | ppbv | 1,2 | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Naphthalene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| iso-Octane | 0.47 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| n-Propylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Propylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Styrene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Tetrachloroethene | 97 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 12/28/11 03:52 | ECB | A |
| Tetrahydrofuran | 1.0 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Toluene | 0.41 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Total Xylenes | 1.4 | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,1,1-Trichloroethane | 47 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,1,2-Trichloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Trichloroethene | 180 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 12/28/11 03:52 | ECB | A |
| Trichlorofluoromethane | 0.91 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2,3-Trichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Vinyl Acetate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Vinyl Bromide | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Vinyl Chloride | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| o-Xylene | 0.64 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:12 | ECB | A |
| m-Xylene | 0.78J | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Acetone | 7 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Acrylonitrile | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:12 | ECB | A |
| tert-Amyl methyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 03:12 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| Lab ID: | 9943262001 | | | Date Collected: | 12/16/2011 11:30 | | Matrix: | Air |
|----------------------------|----------------------|-------|-----------|-----------------|------------------|-----|---------|----------------------|
| Sample ID: | SVE-TI-121611 | | | Date Received: | 12/17/2011 09:20 | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared |
| Benzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 12/29/11 03:12 ECB A |
| Benzyl Chloride | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| Bromodichloromethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| Bromoform | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 12/29/11 03:12 ECB A |
| Bromomethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 12/29/11 03:12 ECB A |
| 1,3-Butadiene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | 12/29/11 03:12 ECB A |
| n-Butane | 0.7J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | 12/29/11 03:12 ECB A |
| 2-Butanone | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 12/29/11 03:12 ECB A |
| tert-Butyl Alcohol | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 12/29/11 03:12 ECB A |
| Carbon Disulfide | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 12/29/11 03:12 ECB A |
| Carbon Tetrachloride | 3 | ug/m3 | | 3 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| Chlorobenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 12/29/11 03:12 ECB A |
| Chlorodibromomethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | 12/29/11 03:12 ECB A |
| Chloroethane | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | 12/29/11 03:12 ECB A |
| Chloroform | 2 | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| Chloromethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 12/29/11 03:12 ECB A |
| 3-Chloro-1-propene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 12/29/11 03:12 ECB A |
| o-Chlorotoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| Cyclohexane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | 12/29/11 03:12 ECB A |
| 1,2-Dibromoethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | 12/29/11 03:12 ECB A |
| 1,2-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| 1,3-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| 1,4-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| 1,1-Dichloroethane | 17 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 12/29/11 03:12 ECB A |
| 1,2-Dichloroethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 12/29/11 03:12 ECB A |
| 1,1-Dichloroethene | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 12/29/11 03:12 ECB A |
| cis-1,2-Dichloroethene | 170 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 12/29/11 03:12 ECB A |
| trans-1,2-Dichloroethene | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 12/29/11 03:12 ECB A |
| 1,2-Dichloropropane | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 12/29/11 03:12 ECB A |
| cis-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 12/29/11 03:12 ECB A |
| trans-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 12/29/11 03:12 ECB A |
| 1,3-Dichloropropene, Total | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 12/29/11 03:12 ECB A |
| Diisopropyl ether | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| 1,4-Dioxane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | 12/29/11 03:12 ECB A |
| Ethanol | 3 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 12/29/11 03:12 ECB A |
| Ethyl Acetate | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| Ethyl tert-butyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 12/29/11 03:12 ECB A |
| Ethylbenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 12/29/11 03:12 ECB A |
| 4-Ethyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |
| Freon 113 | 54 | ug/m3 | | 3 | 2 | 2 | TO-15 | 12/29/11 03:12 ECB A |
| Freon-114 | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | 12/29/11 03:12 ECB A |

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| Lab ID: | 9943262001 | Date Collected: 12/16/2011 11:30 | | | | | Matrix: | Air | | | |
|-----------------------------|----------------------|----------------------------------|------------------|---------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-TI-121611 | Date Received: 12/17/2011 09:20 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Hexachlorobutadiene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Hexane | 0.8J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 2-Hexanone | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Isopropyl Alcohol | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Isopropylbenzene | 9 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| p-Isopropyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Methyl Methacrylate | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Methyl t-Butyl Ether | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Methylene Chloride | 2 | ug/m3 | 1,2 | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Naphthalene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| iso-Octane | 2 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 03:12 | ECB | A |
| n-Propylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Propylene | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Styrene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Tetrachloroethene | 660 | ug/m3 | | 14 | 7 | 7 | TO-15 | | 12/28/11 03:52 | ECB | A |
| Tetrahydrofuran | 3 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Toluene | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Total Xylenes | 6 | ug/m3 | | 5 | 3 | 3 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2,4-Trichlorobenzene | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,1,1-Trichloroethane | 260 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,1,2-Trichloroethane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Trichloroethene | 980 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 12/28/11 03:52 | ECB | A |
| Trichlorofluoromethane | 5 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2,3-Trichloropropane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2,4-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,3,5-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| 1,2,3-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Vinyl Acetate | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Vinyl Bromide | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 03:12 | ECB | A |
| Vinyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:12 | ECB | A |
| o-Xylene | 3 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 03:12 | ECB | A |
| mp-Xylene | 3J | ug/m3 | | 3 | 2 | 2 | TO-15 | | 12/29/11 03:12 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 98 | % | | 70-130 | | | TO-15 | | 12/28/11 03:52 | ECB | A |
| 4-Bromofluorobenzene (S) | 102 | % | | 70-130 | | | TO-15 | | 12/29/11 03:12 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262001** Date Collected: 12/16/2011 11:30 Matrix: Air
Sample ID: **SVE-TI-121611** Date Received: 12/17/2011 09:20

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna Milliken
Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| | | | | | |
|------------|----------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9943262002 | Date Collected: | 12/16/2011 11:30 | Matrix: | Air |
| Sample ID: | SVE-TE-121611 | Date Received: | 12/17/2011 09:20 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 15 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| tert-Amyl methyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Benzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Bromodichloromethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Bromoform | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Bromomethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,3-Butadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| n-Butane | 0.36 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 2-Butanone | 0.47 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| tert-Butyl Alcohol | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Carbon Disulfide | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Carbon Tetrachloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chlorodibromomethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chloroform | 0.46 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chloromethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 3-Chloro-1-propene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| o-Chlorotoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Cyclohexane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2-Dibromoethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,3-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,4-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Dichlorodifluoromethane | 0.56 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,1-Dichloroethane | 4.1 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2-Dichloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,1-Dichloroethene | 0.41 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| cis-1,2-Dichloroethene | 47 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 12/28/11 04:35 | ECB | A |
| trans-1,2-Dichloroethene | 0.56 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2-Dichloropropane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| cis-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| trans-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,3-Dichloropropene, Total | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,4-Dioxane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Ethanol | 2.2 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Ethyl tert-butyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| | | | | | |
|------------|----------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9943262002 | Date Collected: | 12/16/2011 11:30 | Matrix: | Air |
| Sample ID: | SVE-TE-121611 | Date Received: | 12/17/2011 09:20 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| Ethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 4-Ethyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Freon 113 | 8.3 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Freon-114 | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Heptane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Hexachlorobutadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Hexane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 2-Hexanone | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Isopropyl Alcohol | 0.42 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Isopropylbenzene | 0.63 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| p-Isopropyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Methyl methacrylate | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Methyl t-Butyl Ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Methylene Chloride | 0.30 | ppbv | 1,2 | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Naphthalene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| iso-Octane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| n-Propylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Propylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Styrene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Tetrachloroethene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Tetrahydrofuran | 9.4 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Toluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Total Xylenes | 0.30U | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,1,1-Trichloroethane | 41 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 12/28/11 04:35 | ECB | A |
| 1,1,2-Trichloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Trichloroethene | 2.5 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Trichlorofluoromethane | 0.68 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2,3-Trichloropropane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Vinyl Bromide | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Vinyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| o-Xylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 12/29/11 03:53 | ECB | A |
| mp-Xylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Acetone | 36 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 12/29/11 03:53 | ECB | A |
| tert-Amyl methyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| Lab ID: | 9943262002 | Date Collected: 12/16/2011 11:30 | | | | | Matrix: | Air | | | |
|----------------------------|----------------------|----------------------------------|-----------|-----|-----|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-TE-121611 | Date Received: 12/17/2011 09:20 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Bromodichloromethane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Bromoform | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Bromomethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,3-Butadiene | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 12/29/11 03:53 | ECB | A |
| n-Butane | 0.9 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 2-Butanone | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:53 | ECB | A |
| tert-Butyl Alcohol | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Carbon Disulfide | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Carbon Tetrachloride | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chlorobenzene | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chlorodibromomethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chloroethane | 0.3U | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chloroform | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Chloromethane | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 3-Chloro-1-propene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:53 | ECB | A |
| o-Chlorotoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Cyclohexane | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2-Dibromoethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,3-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,4-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,1-Dichloroethane | 17 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2-Dichloroethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,1-Dichloroethene | 2 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| cis-1,2-Dichloroethene | 190 | ug/m3 | | 8 | 4 | 4 | TO-15 | | 12/28/11 04:35 | ECB | A |
| trans-1,2-Dichloroethene | 2 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2-Dichloropropane | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| cis-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| trans-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,3-Dichloropropene, Total | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,4-Dioxane | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Ethanol | 4 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Ethyl tert-butyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Ethylbenzene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 4-Ethyltoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Freon 113 | 63 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Freon-114 | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 03:53 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| Lab ID: | 9943262002 | Date Collected: 12/16/2011 11:30 | | | | | Matrix: | Air | | | |
|-----------------------------|----------------------|----------------------------------|------------------|---------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-TE-121611 | Date Received: 12/17/2011 09:20 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Hexachlorobutadiene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Hexane | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 2-Hexanone | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Isopropyl Alcohol | 1 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Isopropylbenzene | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| p-Isopropyltoluene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Methyl Methacrylate | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Methyl t-Butyl Ether | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Methylene Chloride | 1 | ug/m3 | 1,2 | 0.7 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Naphthalene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| iso-Octane | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| n-Propylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Propylene | 0.2U | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Styrene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Tetrachloroethene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Tetrahydrofuran | 28 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Toluene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Total Xylenes | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,1,1-Trichloroethane | 220 | ug/m3 | | 11 | 6 | 6 | TO-15 | | 12/28/11 04:35 | ECB | A |
| 1,1,2-Trichloroethane | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Trichloroethene | 14 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Trichlorofluoromethane | 4 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2,3-Trichloropropane | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Vinyl Bromide | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| Vinyl Chloride | 0.3U | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 12/29/11 03:53 | ECB | A |
| o-Xylene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 12/29/11 03:53 | ECB | A |
| mp-Xylene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 03:53 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 98 | % | | 70-130 | | | TO-15 | | 12/28/11 04:35 | ECB | A |
| 4-Bromofluorobenzene (S) | 100 | % | | 70-130 | | | TO-15 | | 12/29/11 03:53 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262002** Date Collected: 12/16/2011 11:30 Matrix: Air
Sample ID: **SVE-TE-121611** Date Received: 12/17/2011 09:20

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

Anna G Milliken
Anna G Milliken
Technical Manager

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9943262003 | Date Collected: | 12/16/2011 12:00 | Matrix: | Air |
| Sample ID: | SVE-TI-121611-2 | Date Received: | 12/17/2011 09:20 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 1.7 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Acrylonitrile | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| tert-Amyl methyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Benzene | 0.32J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Benzyl Chloride | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Bromodichloromethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Bromoform | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Bromomethane | 0.23J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,3-Butadiene | 0.21J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| n-Butane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 2-Butanone | 0.60 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| tert-Butyl Alcohol | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Carbon Disulfide | 0.22J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Carbon Tetrachloride | 0.68 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chlorodibromomethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chloroform | 0.65 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chloromethane | 0.30J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 3-Chloro-1-propene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| o-Chlorotoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Cyclohexane | 0.43 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2-Dibromoethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,3-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,4-Dichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Dichlorodifluoromethane | 0.78 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1-Dichloroethane | 4.3 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2-Dichloroethane | 0.37J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1-Dichloroethene | 0.46 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| cis-1,2-Dichloroethene | 43 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| trans-1,2-Dichloroethene | 0.62 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2-Dichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| cis-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| trans-1,3-Dichloropropene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,3-Dichloropropene, Total | 0.40U | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Diisopropyl ether | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,4-Dioxane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Ethanol | 1.2 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Ethyl Acetate | 0.28U | ppbv | | 0.40 | 0.28 | 0.28 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Ethyl tert-butyl ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| Lab ID: | 9943262003 | Date Collected: 12/16/2011 12:00 | | | | | Matrix: | Air | | | |
|----------------------------|------------------------|----------------------------------|-----------|------|------|------|---------|----------|----------------|-----|------|
| Sample ID: | SVE-TI-121611-2 | Date Received: 12/17/2011 09:20 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 4-Ethyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Freon 113 | 7.2 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Freon-114 | 0.26J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Heptane | 0.32J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Hexachlorobutadiene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Hexane | 1.0 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 2-Hexanone | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Isopropyl Alcohol | 0.76 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Isopropylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| p-Isopropyltoluene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Methyl methacrylate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Methyl t-Butyl Ether | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Methylene Chloride | 1.1 | ppbv | 1,2 | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Naphthalene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| iso-Octane | 0.28J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| n-Propylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Propylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Styrene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Tetrachloroethene | 76 | ppbv | | 4.0 | 2.0 | 2.0 | TO-15 | | 12/28/11 05:18 | ECB | A |
| Tetrahydrofuran | 1.1 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Toluene | 0.26J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Total Xylenes | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1,1-Trichloroethane | 47 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1,2-Trichloroethane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Trichloroethene | 190 | ppbv | | 4.0 | 2.0 | 2.0 | TO-15 | | 12/28/11 05:18 | ECB | A |
| Trichlorofluoromethane | 1.1 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2,3-Trichloropropane | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Vinyl Acetate | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Vinyl Bromide | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Vinyl Chloride | 0.34J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| o-Xylene | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 12/29/11 04:34 | ECB | A |
| m-Xylene | 0.40U | ppbv | | 0.80 | 0.40 | 0.40 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Acetone | 4 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Acrylonitrile | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 12/29/11 04:34 | ECB | A |
| tert-Amyl methyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| Lab ID: | 9943262003 | | | Date Collected: | 12/16/2011 12:00 | | Matrix: | Air | | | |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-TI-121611-2 | | | Date Received: | 12/17/2011 09:20 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 1J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Benzyl Chloride | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Bromodichloromethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Bromoform | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Bromomethane | 0.9J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,3-Butadiene | 0.5J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 12/29/11 04:34 | ECB | A |
| n-Butane | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 2-Butanone | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 04:34 | ECB | A |
| tert-Butyl Alcohol | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Carbon Disulfide | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Carbon Tetrachloride | 4 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chlorobenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chlorodibromomethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chloroethane | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chloroform | 3 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Chloromethane | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 3-Chloro-1-propene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 04:34 | ECB | A |
| o-Chlorotoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Cyclohexane | 1 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2-Dibromoethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,3-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,4-Dichlorobenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Dichlorodifluoromethane | 4 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1-Dichloroethane | 18 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2-Dichloroethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1-Dichloroethene | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| cis-1,2-Dichloroethene | 170 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| trans-1,2-Dichloroethene | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2-Dichloropropane | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 04:34 | ECB | A |
| cis-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 04:34 | ECB | A |
| trans-1,3-Dichloropropene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,3-Dichloropropene, Total | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Diisopropyl ether | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,4-Dioxane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Ethanol | 2 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Ethyl Acetate | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Ethyl tert-butyl ether | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Ethylbenzene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 4-Ethyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Freon 113 | 55 | ug/m3 | | 3 | 2 | 2 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Freon-114 | 2J | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

| Lab ID: | 9943262003 | Date Collected: 12/16/2011 12:00 | | | | Matrix: | Air | | | | |
|-----------------------------|------------------------|----------------------------------|------------------|---------------|-----|---------|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-TI-121611-2 | Date Received: 12/17/2011 09:20 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Hexachlorobutadiene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Hexane | 4 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 2-Hexanone | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Isopropyl Alcohol | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Isopropylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| p-Isopropyltoluene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Methyl Methacrylate | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Methyl t-Butyl Ether | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Methylene Chloride | 4 | ug/m3 | 1,2 | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Naphthalene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| iso-Octane | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 04:34 | ECB | A |
| n-Propylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Propylene | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Styrene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Tetrachloroethene | 510 | ug/m3 | | 27 | 14 | 14 | TO-15 | | 12/28/11 05:18 | ECB | A |
| Tetrahydrofuran | 3 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Toluene | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Total Xylenes | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2,4-Trichlorobenzene | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1,1-Trichloroethane | 250 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,1,2-Trichloroethane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Trichloroethene | 1000 | ug/m3 | | 21 | 11 | 11 | TO-15 | | 12/28/11 05:18 | ECB | A |
| Trichlorofluoromethane | 6 | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2,3-Trichloropropane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2,4-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,3,5-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| 1,2,3-Trimethylbenzene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Vinyl Acetate | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Vinyl Bromide | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 04:34 | ECB | A |
| Vinyl Chloride | 0.9J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 12/29/11 04:34 | ECB | A |
| o-Xylene | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 12/29/11 04:34 | ECB | A |
| mp-Xylene | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 12/29/11 04:34 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 99 | % | | 70-130 | | | TO-15 | | 12/28/11 05:18 | ECB | A |
| 4-Bromofluorobenzene (S) | 101 | % | | 70-130 | | | TO-15 | | 12/29/11 04:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

Lab ID: **9943262003** Date Collected: 12/16/2011 12:00 Matrix: Air
Sample ID: **SVE-TI-121611-2** Date Received: 12/17/2011 09:20

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

Reporting limits for the TO-15 analysis were raised due to insufficient sample volume received as well as the level of target compounds present.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9943262 HNW037|NWIRP Bethpage - GM-38

PARAMETER QUALIFIERS\FLAGS

- [1] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 154 and the control limits were 60 to 140.
- [2] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 157 and the control limits were 60 to 140.

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AIR ANALYSIS

CHAIN-OF-CUSTODY/FIELD TEST DATA SHEET

ALL SHADDED AREAS MUST BE COMPLETED BY THE
CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

1. CLIENT INFORMATION

| | |
|----------------------|--|
| Client Name/Address: | ALS Environmental |
| Contact: | Jon Good |
| Phone: | 509 366-7442 |
| Project Name/#: | WURP Bethpage Site |
| Bill To: | |
| TAT: | Normal Standard TAT is 10-12 business days. Rush: _____ TAT Subject to ALS approval and surcharges. |
| Date Required: | Approved By: _____ |
| Email: | Jon.Good@alsgenius.com |
| Fax? | No: |

SAMPLE INFORMATION FOR TO-15

| Sample Description/Location (as it will appear on the lab report) | Sample Type Choose one: Inhalable air Non-inhalable PM-10/PM-2.5 | Sample Date | Start Time | Stop Time | Temp Deg C | 1L 6L | Canister No. | Flow Controller No. | Canister Pressure (Psi) | Canister Certification File | Canister Out | Pressure (Psi) | Flow Controller Stop | Setpoint (ml/min) |
|--|--|-------------|------------|-----------|------------|-------|--------------|---------------------|-------------------------|-----------------------------|--------------|----------------|----------------------|-------------------|
| | | | | | | | | | | | | | | |
| 1SUE-TE-12/6/11 | AIR | 12/6/11 | 1100 | 1130 | | X | 1364 | 333735 | -30 | -5 | | | | 168 |
| 2SUE-TE-12/6/11 | AIR | 12/6/11 | 1100 | 1130 | | X | 1126 | 330410 | -30 | -5 | | | | |
| 3SUE-TE-12/6/11 | AIR | 12/6/11 | 1130 | 1140 | | X | 1840 | 7884% | -30 | -30 | | | | |
| 4 | 2 sample bags from canister at street w/pressure indicating actual flow | | | | | | | | | | | | | |
| 5 | for entire storage period. | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |

5. SAMPLED BY (Please Print): LOGGED BY (Signature): REVIEWED BY (Signature):

Requisitioned by/ Company Name: *ALS Environmental* Received By/ Company Name: *John Good*

Date: 12/6/11 Time: 2 Date: 12/7/11 Time: 0922

EDS-Format Type: *TO-15* DOD: Other:

ALSI Field Services: Pickup Labor

Other: Other:

| State Samples Collected In | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> NY | <input type="checkbox"/> CLP-like |
| <input type="checkbox"/> NJ | <input type="checkbox"/> TO-15 |
| <input type="checkbox"/> PA | <input type="checkbox"/> DOD |
| <input type="checkbox"/> NC | <input type="checkbox"/> Other |
| other | |

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ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: ALS Environmental
 Horizon WO#: 9943262
 Sample Delivery Group ID:
 Log In By/Date: 12/27/11 1010
 (signature) LS

Number of Shipping containers received:

Project Name/#: NW1PP Bethpage Site 1

Date/Time received: 12/17/11 0920

Received By: LS

Project Manager Review (date)

(signature)

Courier: FedEx S7504Z0046664

Circle the response below as appropriate.

1. Did kit(s) come with a shipping slip (airbill, etc.)? YES NO NA
 If YES, enter airbill numbers: _____

Shipping Container Information:

2. Were shipping containers received without signs of tampering? YES NO NA
 Comments: _____

3. Were custody seals present and intact? YES NO NA

4. Were custody seals numbers present? YES NO NA

List Custody Seal Numbers:

1450

Sample Condition:

5. Were sample containers received intact without signs of tampering? YES NO NA
 Comments: _____

Chain of Custody:

6. Did COC arrive with the samples? YES NO NA
 7. Do sample ID/Sample Description(s) match samples submitted? YES NO NA
 8. Is date and time of collection listed on the COC for all samples? YES NO NA
 9. Is identification of sampler on COC? YES NO NA
 10. Are requested test method(s) on COC? YES NO NA
 11. Are necessary signatures on COC? YES NO NA
 12. Was Internal COC initiated? (should always be YES) YES NO NA

Sample Integrity Usability:

13. Do sample containers match the COC? YES NO NA
 14. Were sample canisters received within 15 days of shipment to client? YES NO NA

Anomalies or Non-Conformances:

Rev. 2/2011

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November 21, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name: **NWIRP Bethpage - GM-38**

Workorder: **9932357**

Purchase Order: **2034-003**

Workorder ID: **HNW028|NWIRP Bethpage QtrSite1**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Saturday, October 15, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Anna G Milliken
Technical Manager

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SAMPLE SUMMARY

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Discard Date: 01/20/2012

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|-----------------|--------|----------------|----------------|--------------|
| 9932357001 | SVE-101I-101411 | Air | 10/14/11 12:40 | 10/15/11 09:00 | Customer |
| 9932357002 | SVE-101D-101411 | Air | 10/14/11 12:40 | 10/15/11 09:00 | Customer |
| 9932357003 | SVE-102I-101411 | Air | 10/14/11 12:02 | 10/15/11 09:00 | Customer |
| 9932357004 | SVE-102D-101411 | Air | 10/14/11 12:02 | 10/15/11 09:00 | Customer |
| 9932357005 | SVE-103I-101411 | Air | 10/14/11 12:45 | 10/15/11 09:00 | Customer |
| 9932357006 | SVE-103D-101411 | Air | 10/14/11 12:45 | 10/15/11 09:00 | Customer |
| 9932357007 | SVE-104I-101411 | Air | 10/14/11 12:45 | 10/15/11 09:00 | Customer |
| 9932357008 | SVE-104D-101411 | Air | 10/14/11 12:45 | 10/15/11 09:00 | Customer |
| 9932357009 | SVE-105I-101411 | Air | 10/14/11 12:02 | 10/15/11 09:00 | Customer |
| 9932357010 | SVE-105D-101411 | Air | 10/14/11 12:02 | 10/15/11 09:00 | Customer |
| 9932357011 | SVE-106I-101411 | Air | 10/14/11 12:02 | 10/15/11 09:00 | Customer |
| 9932357012 | SVE-106D-101411 | Air | 10/14/11 12:02 | 10/15/11 09:00 | Customer |

Workorder Comments:

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SAMPLE SUMMARY

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Discard Date: 01/20/2012

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|--------|-----------|--------|----------------|---------------|--------------|
|--------|-----------|--------|----------------|---------------|--------------|

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

| | |
|--------|--|
| J, B | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357001 | Date Collected: | 10/14/2011 12:40 | Matrix: | Air |
| Sample ID: | SVE-101I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 3.2 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| tert-Amyl methyl ether | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Benzene | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Bromodichloromethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Bromoform | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Bromomethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,3-Butadiene | 0.20J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| n-Butane | 0.35 | ppbv | 1 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 2-Butanone | 0.45 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| tert-Butyl Alcohol | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Carbon Disulfide | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Carbon Tetrachloride | 0.20J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chlorobenzene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chlorodibromomethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chloroethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chloroform | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chloromethane | 0.63 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 3-Chloro-1-propene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| o-Chlorotoluene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Cyclohexane | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2-Dibromoethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2-Dichlorobenzene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,3-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,4-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Dichlorodifluoromethane | 0.54 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1-Dichloroethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2-Dichloroethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1-Dichloroethene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| cis-1,2-Dichloroethene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| trans-1,2-Dichloroethene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2-Dichloropropane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| cis-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| trans-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,3-Dichloropropene, Total | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,4-Dioxane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Ethanol | 1.8 | ppbv | 2,3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Ethyl tert-butyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357001 | Date Collected: | 10/14/2011 12:40 | Matrix: | Air |
| Sample ID: | SVE-101I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| Ethylbenzene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 4-Ethyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Freon 113 | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Freon-114 | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Heptane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Hexachlorobutadiene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Hexane | 0.20 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 2-Hexanone | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Isopropyl Alcohol | 0.30 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Isopropylbenzene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| p-Isopropyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Methyl methacrylate | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Methyl t-Butyl Ether | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Methylene Chloride | 0.53 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Naphthalene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| iso-Octane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| n-Propylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Propylene | 0.31 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Styrene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Tetrachloroethene | 0.24 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Tetrahydrofuran | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Toluene | 0.21 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Total Xylenes | 0.41J | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1,1-Trichloroethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1,2-Trichloroethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Trichloroethene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Trichlorofluoromethane | 0.30 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2,3-Trichloropropane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Vinyl Bromide | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Vinyl Chloride | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| o-Xylene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:08 | ECB | A |
| mp-Xylene | 0.27J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Acetone | 8 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:08 | ECB | A |
| tert-Amyl methyl ether | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357001 | | | Date Collected: | 10/14/2011 12:40 | | Matrix: | Air | | | |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-101I-101411 | | | Date Received: | 10/15/2011 09:00 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.6J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Bromodichloromethane | 0.8J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Bromoform | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Bromomethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,3-Butadiene | 0.4J | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:08 | ECB | A |
| n-Butane | 0.8 | ug/m3 | 1 | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 2-Butanone | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:08 | ECB | A |
| tert-Butyl Alcohol | 0.4J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Carbon Disulfide | 0.4J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Carbon Tetrachloride | 1J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chlorobenzene | 0.5J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chlorodibromomethane | 0.9J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chloroethane | 0.4J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chloroform | 0.6J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Chloromethane | 1 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 3-Chloro-1-propene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:08 | ECB | A |
| o-Chlorotoluene | 0.5J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Cyclohexane | 0.3J | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2-Dibromoethane | 0.8J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2-Dichlorobenzene | 0.6J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,3-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,4-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1-Dichloroethane | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2-Dichloroethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1-Dichloroethene | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| cis-1,2-Dichloroethene | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| trans-1,2-Dichloroethene | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2-Dichloropropane | 0.6J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| cis-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| trans-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,3-Dichloropropene, Total | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,4-Dioxane | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Ethanol | 3 | ug/m3 | 2,3 | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Ethyl tert-butyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Ethylbenzene | 0.5J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 4-Ethyltoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Freon 113 | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Freon-114 | 0.9J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:08 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357001 | Date Collected: 10/14/2011 12:40 | | | | | Matrix: | Air | | | |
|-----------------------------|------------------------|----------------------------------|------------------|---------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-101I-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Hexachlorobutadiene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Hexane | 0.7 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 2-Hexanone | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Isopropyl Alcohol | 0.7 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Isopropylbenzene | 0.6J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| p-Isopropyltoluene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Methyl Methacrylate | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Methyl t-Butyl Ether | 0.4J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Methylene Chloride | 2 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Naphthalene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| iso-Octane | 0.6J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| n-Propylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Propylene | 0.5 | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Styrene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.8J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Tetrachloroethene | 2 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Tetrahydrofuran | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Toluene | 0.8 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Total Xylenes | 2J | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1,1-Trichloroethane | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,1,2-Trichloroethane | 0.6J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Trichloroethene | 0.6J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Trichlorofluoromethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2,3-Trichloropropane | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.7J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.5J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.5J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Vinyl Bromide | 0.6J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| Vinyl Chloride | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:08 | ECB | A |
| o-Xylene | 0.6J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:08 | ECB | A |
| mp-Xylene | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 07:08 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 107 | % | | 70-130 | | | TO-15 | | 10/27/11 07:08 | ECB | A |

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357001** Date Collected: 10/14/2011 12:40 Matrix: Air
Sample ID: **SVE-101I-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Several compounds were detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

A handwritten signature in black ink that reads 'Anna Milliken'. Below the signature, the name 'Anna G Milliken' is printed in a standard font, followed by the title 'Technical Manager'.

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357002 | Date Collected: | 10/14/2011 12:40 | Matrix: | Air |
| Sample ID: | SVE-101D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 3.9 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| tert-Amyl methyl ether | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Benzene | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Bromodichloromethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Bromoform | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Bromomethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,3-Butadiene | 0.21 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| n-Butane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 2-Butanone | 0.42 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| tert-Butyl Alcohol | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Carbon Disulfide | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Carbon Tetrachloride | 0.21 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chlorobenzene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chlorodibromomethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chloroethane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chloroform | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chloromethane | 0.63 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 3-Chloro-1-propene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| o-Chlorotoluene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Cyclohexane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2-Dibromoethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2-Dichlorobenzene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,3-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,4-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Dichlorodifluoromethane | 0.53 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1-Dichloroethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2-Dichloroethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1-Dichloroethene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| cis-1,2-Dichloroethene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| trans-1,2-Dichloroethene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2-Dichloropropane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| cis-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| trans-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,3-Dichloropropene, Total | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,4-Dioxane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Ethanol | 1.4 | ppbv | 2,3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Ethyl Acetate | 0.14J | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Ethyl tert-butyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357002 | Date Collected: 10/14/2011 12:40 | | | | | Matrix: | Air | | | |
|----------------------------|------------------------|----------------------------------|-----------|------|------|------|---------|----------|----------------|-----|------|
| Sample ID: | SVE-101D-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.20 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 4-Ethyltoluene | 0.20 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Freon 113 | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Freon-114 | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Heptane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Hexachlorobutadiene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Hexane | 0.23 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 2-Hexanone | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Isopropyl Alcohol | 0.36 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Isopropylbenzene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| p-Isopropyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Methyl methacrylate | 0.67 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Methyl t-Butyl Ether | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Methylene Chloride | 0.57 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Naphthalene | 0.17J | ppbv | 4 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| iso-Octane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| n-Propylbenzene | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Propylene | 0.25 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Styrene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Tetrachloroethene | 0.30 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Tetrahydrofuran | 0.35 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Toluene | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Total Xylenes | 0.90 | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1,1-Trichloroethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1,2-Trichloroethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Trichloroethene | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Trichlorofluoromethane | 0.30 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2,3-Trichloropropane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.67 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.20 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Vinyl Bromide | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Vinyl Chloride | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| o-Xylene | 0.30 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 07:51 | ECB | A |
| m-Xylene | 0.60 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Acetone | 9 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:51 | ECB | A |
| tert-Amyl methyl ether | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357002 | | | Date Collected: | 10/14/2011 12:40 | | Matrix: | Air | | | |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-101D-101411 | | | Date Received: | 10/15/2011 09:00 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Bromodichloromethane | 0.8J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Bromoform | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Bromomethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,3-Butadiene | 0.5 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:51 | ECB | A |
| n-Butane | 0.2U | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 2-Butanone | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:51 | ECB | A |
| tert-Butyl Alcohol | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Carbon Disulfide | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Carbon Tetrachloride | 1 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chlorobenzene | 0.6J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chlorodibromomethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chloroethane | 0.4J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chloroform | 0.7J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Chloromethane | 1 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 3-Chloro-1-propene | 0.4J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:51 | ECB | A |
| o-Chlorotoluene | 0.5J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Cyclohexane | 0.4J | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2-Dibromoethane | 0.9J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2-Dichlorobenzene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,3-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,4-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1-Dichloroethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2-Dichloroethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1-Dichloroethene | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| cis-1,2-Dichloroethene | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| trans-1,2-Dichloroethene | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2-Dichloropropane | 0.5J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| cis-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| trans-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,3-Dichloropropene, Total | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,4-Dioxane | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Ethanol | 3 | ug/m3 | 2,3 | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Ethyl Acetate | 0.5J | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Ethyl tert-butyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Ethylbenzene | 0.9 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 4-Ethyltoluene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Freon 113 | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Freon-114 | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:51 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357002 | Date Collected: | 10/14/2011 12:40 | Matrix: | Air |
| Sample ID: | SVE-101D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|-----------------------------|----------------|--------------|------------------|---------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Heptane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Hexachlorobutadiene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Hexane | 0.8 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 2-Hexanone | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Isopropyl Alcohol | 0.9 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Isopropylbenzene | 0.6J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| p-Isopropyltoluene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Methyl Methacrylate | 3 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Methyl t-Butyl Ether | 0.4J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Methylene Chloride | 2 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Naphthalene | 0.9J | ug/m3 | 4 | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| iso-Octane | 0.6J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| n-Propylbenzene | 0.8J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Propylene | 0.4 | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Styrene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Tetrachloroethene | 2 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Tetrahydrofuran | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Toluene | 1 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Total Xylenes | 4 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1,1-Trichloroethane | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,1,2-Trichloroethane | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Trichloroethene | 1J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Trichlorofluoromethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2,3-Trichloropropane | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2,4-Trimethylbenzene | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,3,5-Trimethylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| 1,2,3-Trimethylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Vinyl Bromide | 0.6J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| Vinyl Chloride | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 07:51 | ECB | A |
| o-Xylene | 1 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 07:51 | ECB | A |
| mp-Xylene | 3 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 07:51 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 104 | % | | 70-130 | | | TO-15 | | 10/27/11 07:51 | ECB | A |

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357002** Date Collected: 10/14/2011 12:40 Matrix: Air
Sample ID: **SVE-101D-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Several compounds were detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

A handwritten signature in black ink that reads 'Anna Milliken'. Below the signature, the name 'Anna G Milliken' is printed in a standard font, followed by the title 'Technical Manager'.

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357003 | Date Collected: | 10/14/2011 12:02 | Matrix: | Air |
| Sample ID: | SVE-102I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 3.1 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| tert-Amyl methyl ether | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Benzene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Bromodichloromethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Bromoform | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Bromomethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,3-Butadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| n-Butane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 2-Butanone | 0.52 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| tert-Butyl Alcohol | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Carbon Disulfide | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Carbon Tetrachloride | 0.19J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chlorobenzene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chlorodibromomethane | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chloroethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chloroform | 0.84 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chloromethane | 0.20 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 3-Chloro-1-propene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| o-Chlorotoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Cyclohexane | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2-Dibromoethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,3-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,4-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Dichlorodifluoromethane | 0.50 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1-Dichloroethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2-Dichloroethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1-Dichloroethene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| cis-1,2-Dichloroethene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| trans-1,2-Dichloroethene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2-Dichloropropane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| cis-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| trans-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,3-Dichloropropene, Total | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,4-Dioxane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Ethanol | 2.0 | ppbv | 2,3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Ethyl tert-butyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357003 | Date Collected: | 10/14/2011 12:02 | Matrix: | Air |
| Sample ID: | SVE-102I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| Ethylbenzene | 0.29 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 4-Ethyltoluene | 0.24 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Freon 113 | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Freon-114 | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Heptane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Hexachlorobutadiene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Hexane | 0.21 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 2-Hexanone | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Isopropyl Alcohol | 0.32 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Isopropylbenzene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| p-Isopropyltoluene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Methyl methacrylate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Methyl t-Butyl Ether | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Methylene Chloride | 0.95 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Naphthalene | 0.22 | ppbv | 4 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| iso-Octane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| n-Propylbenzene | 0.19J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Propylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Styrene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Tetrachloroethene | 0.84 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Tetrahydrofuran | 0.47 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Toluene | 0.29 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Total Xylenes | 1.3 | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1,1-Trichloroethane | 0.40 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1,2-Trichloroethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Trichloroethene | 9.7 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Trichlorofluoromethane | 0.42 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2,3-Trichloropropane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2,4-Trimethylbenzene | 1.1 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.27 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.39 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Vinyl Bromide | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Vinyl Chloride | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| o-Xylene | 0.44 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 08:34 | ECB | A |
| m-Xylene | 0.84 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Acetone | 7 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 08:34 | ECB | A |
| tert-Amyl methyl ether | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357003 | | | Date Collected: | 10/14/2011 12:02 | | Matrix: | Air | | | |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-102I-101411 | | | Date Received: | 10/15/2011 09:00 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Bromodichloromethane | 0.7J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Bromoform | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Bromomethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,3-Butadiene | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 08:34 | ECB | A |
| n-Butane | 0.2U | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 2-Butanone | 2 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 08:34 | ECB | A |
| tert-Butyl Alcohol | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Carbon Disulfide | 0.4J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Carbon Tetrachloride | 1J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chlorobenzene | 0.5J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chlorodibromomethane | 0.9J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chloroethane | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chloroform | 4 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Chloromethane | 0.4 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 3-Chloro-1-propene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 08:34 | ECB | A |
| o-Chlorotoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Cyclohexane | 0.4J | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2-Dibromoethane | 0.8J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,3-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,4-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Dichlorodifluoromethane | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1-Dichloroethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2-Dichloroethane | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1-Dichloroethene | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| cis-1,2-Dichloroethene | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| trans-1,2-Dichloroethene | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2-Dichloropropane | 0.6J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| cis-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| trans-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,3-Dichloropropene, Total | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,4-Dioxane | 0.4J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Ethanol | 4 | ug/m3 | 2,3 | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Ethyl tert-butyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Ethylbenzene | 1 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 4-Ethyltoluene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Freon 113 | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Freon-114 | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 08:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357003 | Date Collected: 10/14/2011 12:02 | | | | | Matrix: | Air | | | |
|-----------------------------|------------------------|----------------------------------|------------------|---------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-102I-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Hexachlorobutadiene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Hexane | 0.8 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 2-Hexanone | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Isopropyl Alcohol | 0.8 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Isopropylbenzene | 0.6J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| p-Isopropyltoluene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Methyl Methacrylate | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Methyl t-Butyl Ether | 0.4J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Methylene Chloride | 3 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Naphthalene | 1 | ug/m3 | 4 | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| iso-Octane | 0.6J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| n-Propylbenzene | 0.9J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Propylene | 0.2U | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Styrene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.8J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Tetrachloroethene | 6 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Tetrahydrofuran | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Toluene | 1 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Total Xylenes | 6 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1,1-Trichloroethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,1,2-Trichloroethane | 0.6J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Trichloroethene | 52 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Trichlorofluoromethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2,3-Trichloropropane | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2,4-Trimethylbenzene | 5 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,3,5-Trimethylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| 1,2,3-Trimethylbenzene | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Vinyl Bromide | 0.6J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| Vinyl Chloride | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 08:34 | ECB | A |
| o-Xylene | 2 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 08:34 | ECB | A |
| mp-Xylene | 4 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 08:34 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 108 | % | | 70-130 | | | TO-15 | | 10/27/11 08:34 | ECB | A |

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357003** Date Collected: 10/14/2011 12:02 Matrix: Air
Sample ID: **SVE-102I-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Several compounds were detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

A handwritten signature in black ink that reads 'Anna Milliken'. Below the signature, the name 'Anna G Milliken' is printed in a standard font, followed by the title 'Technical Manager'.

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357004 | Date Collected: | 10/14/2011 12:02 | Matrix: | Air |
| Sample ID: | SVE-102D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 1.6 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| tert-Amyl methyl ether | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Benzene | 0.27 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Bromodichloromethane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Bromoform | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Bromomethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,3-Butadiene | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| n-Butane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 2-Butanone | 0.43 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| tert-Butyl Alcohol | 0.20 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Carbon Disulfide | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Carbon Tetrachloride | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Chlorobenzene | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Chlorodibromomethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Chloroethane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Chloroform | 3.4 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Chloromethane | 0.21 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 3-Chloro-1-propene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| o-Chlorotoluene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Cyclohexane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2-Dibromoethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2-Dichlorobenzene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,3-Dichlorobenzene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,4-Dichlorobenzene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Dichlorodifluoromethane | 0.51 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,1-Dichloroethane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2-Dichloroethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,1-Dichloroethene | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| cis-1,2-Dichloroethene | 0.24 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| trans-1,2-Dichloroethene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2-Dichloropropane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| cis-1,3-Dichloropropene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| trans-1,3-Dichloropropene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,3-Dichloropropene, Total | 0.23J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,4-Dioxane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Ethanol | 0.57 | ppbv | 2,3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Ethyl tert-butyl ether | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 Dod ELAP: A2LA 0818.01

State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357004 | Date Collected: | 10/14/2011 12:02 | Matrix: | Air |
| Sample ID: | SVE-102D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| Ethylbenzene | 0.33 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 4-Ethyltoluene | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Freon 113 | 0.23 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Freon-114 | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Heptane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Hexachlorobutadiene | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Hexane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 2-Hexanone | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Isopropyl Alcohol | 0.40 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Isopropylbenzene | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| p-Isopropyltoluene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Methyl methacrylate | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Methyl t-Butyl Ether | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Methylene Chloride | 0.26 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Naphthalene | 0.32 | ppbv | 4 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| iso-Octane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| n-Propylbenzene | 0.22 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Propylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Styrene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Tetrachloroethene | 5.7 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Tetrahydrofuran | 0.41 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Toluene | 0.59 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Total Xylenes | 1.5 | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.10J | ppbv | 5 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,1,1-Trichloroethane | 0.86 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,1,2-Trichloroethane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Trichloroethene | 16 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Trichlorofluoromethane | 2.3 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2,3-Trichloropropane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2,4-Trimethylbenzene | 1.2 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.29 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.46 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Vinyl Bromide | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Vinyl Chloride | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| o-Xylene | 0.50 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:16 | ECB | A |
| mp-Xylene | 1.0 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Acetone | 4 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:16 | ECB | A |
| tert-Amyl methyl ether | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357004 | | | Date Collected: | 10/14/2011 12:02 | | Matrix: | Air |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------------|
| Sample ID: | SVE-102D-101411 | | | Date Received: | 10/15/2011 09:00 | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared |
| Benzene | 0.9 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | 10/27/11 09:16 |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | 10/27/11 09:16 |
| Bromodichloromethane | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | 10/27/11 09:16 |
| Bromoform | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | 10/27/11 09:16 |
| Bromomethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| 1,3-Butadiene | 0.4J | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | 10/27/11 09:16 |
| n-Butane | 0.2U | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | 10/27/11 09:16 |
| 2-Butanone | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | 10/27/11 09:16 |
| tert-Butyl Alcohol | 0.6 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | 10/27/11 09:16 |
| Carbon Disulfide | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | 10/27/11 09:16 |
| Carbon Tetrachloride | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 10/27/11 09:16 |
| Chlorobenzene | 0.7J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | 10/27/11 09:16 |
| Chlorodibromomethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 10/27/11 09:16 |
| Chloroethane | 0.4J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | 10/27/11 09:16 |
| Chloroform | 17 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | 10/27/11 09:16 |
| Chloromethane | 0.4 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | 10/27/11 09:16 |
| 3-Chloro-1-propene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | 10/27/11 09:16 |
| o-Chlorotoluene | 0.6J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | 10/27/11 09:16 |
| Cyclohexane | 0.4J | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | 10/27/11 09:16 |
| 1,2-Dibromoethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 10/27/11 09:16 |
| 1,2-Dichlorobenzene | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 10/27/11 09:16 |
| 1,3-Dichlorobenzene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 10/27/11 09:16 |
| 1,4-Dichlorobenzene | 0.6J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | 10/27/11 09:16 |
| Dichlorodifluoromethane | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | 10/27/11 09:16 |
| 1,1-Dichloroethane | 0.7J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| 1,2-Dichloroethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| 1,1-Dichloroethene | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| cis-1,2-Dichloroethene | 0.9 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| trans-1,2-Dichloroethene | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| 1,2-Dichloropropane | 0.6J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | 10/27/11 09:16 |
| cis-1,3-Dichloropropene | 0.6J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| trans-1,3-Dichloropropene | 0.5J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| 1,3-Dichloropropene, Total | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | 10/27/11 09:16 |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | 10/27/11 09:16 |
| 1,4-Dioxane | 0.6J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| Ethanol | 1 | ug/m3 | 2,3 | 0.4 | 0.2 | 0.2 | TO-15 | 10/27/11 09:16 |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | 10/27/11 09:16 |
| Ethyl tert-butyl ether | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| Ethylbenzene | 1 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | 10/27/11 09:16 |
| 4-Ethyltoluene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | 10/27/11 09:16 |
| Freon 113 | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | 10/27/11 09:16 |
| Freon-114 | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | 10/27/11 09:16 |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357004 | Date Collected: 10/14/2011 12:02 | | | | | Matrix: | Air | | | |
|-----------------------------|------------------------|----------------------------------|------------------|---------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-102D-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Hexachlorobutadiene | 2J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Hexane | 0.5J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 2-Hexanone | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Isopropyl Alcohol | 1 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Isopropylbenzene | 0.8J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:16 | ECB | A |
| p-Isopropyltoluene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Methyl Methacrylate | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Methyl t-Butyl Ether | 0.4J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Methylene Chloride | 0.9 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Naphthalene | 2 | ug/m3 | 4 | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:16 | ECB | A |
| iso-Octane | 0.7J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:16 | ECB | A |
| n-Propylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Propylene | 0.2U | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Styrene | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Tetrachloroethene | 39 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Tetrahydrofuran | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Toluene | 2 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Total Xylenes | 7 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.8J | ug/m3 | 5 | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,1,1-Trichloroethane | 5 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,1,2-Trichloroethane | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Trichloroethene | 87 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Trichlorofluoromethane | 13 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2,3-Trichloropropane | 0.9J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2,4-Trimethylbenzene | 6 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,3,5-Trimethylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:16 | ECB | A |
| 1,2,3-Trimethylbenzene | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Vinyl Bromide | 0.6J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| Vinyl Chloride | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:16 | ECB | A |
| o-Xylene | 2 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:16 | ECB | A |
| mp-Xylene | 5 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 09:16 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 107 | % | | 70-130 | | | TO-15 | | 10/27/11 09:16 | ECB | A |

Sample Comments:

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357004** Date Collected: 10/14/2011 12:02 Matrix: Air
Sample ID: **SVE-102D-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Several compounds were detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

A handwritten signature in black ink that reads 'Anna Milliken'. Below the signature, the name 'Anna G Milliken' is printed in a standard font, followed by the title 'Technical Manager'.

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357005 | Date Collected: | 10/14/2011 12:45 | Matrix: | Air |
| Sample ID: | SVE-103I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 1.4 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| tert-Amyl methyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Benzene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Bromodichloromethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Bromoform | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Bromomethane | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,3-Butadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| n-Butane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 2-Butanone | 0.35 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| tert-Butyl Alcohol | 0.30 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Carbon Disulfide | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Carbon Tetrachloride | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chlorobenzene | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chlorodibromomethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chloroethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chloroform | 0.37 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chloromethane | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 3-Chloro-1-propene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| o-Chlorotoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Cyclohexane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2-Dibromoethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,3-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,4-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Dichlorodifluoromethane | 0.48 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1-Dichloroethane | 0.40 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2-Dichloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1-Dichloroethene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| cis-1,2-Dichloroethene | 3.1 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| trans-1,2-Dichloroethene | 0.26 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2-Dichloropropane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| cis-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| trans-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,3-Dichloropropene, Total | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,4-Dioxane | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Ethanol | 0.71 | ppbv | 2,3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Ethyl tert-butyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357005 | Date Collected: | 10/14/2011 12:45 | Matrix: | Air |
| Sample ID: | SVE-103I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| Ethylbenzene | 0.24 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 4-Ethyltoluene | 0.25 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Freon 113 | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Freon-114 | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Heptane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Hexachlorobutadiene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Hexane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 2-Hexanone | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Isopropyl Alcohol | 0.19J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Isopropylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| p-Isopropyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Methyl methacrylate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Methyl t-Butyl Ether | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Methylene Chloride | 0.36 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Naphthalene | 0.29 | ppbv | 4 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| iso-Octane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| n-Propylbenzene | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Propylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Styrene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Tetrachloroethene | 86 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/26/11 08:24 | ECB | A |
| Tetrahydrofuran | 0.40 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Toluene | 0.26 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Total Xylenes | 1.1 | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1,1-Trichloroethane | 1.0 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1,2-Trichloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Trichloroethene | 18 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Trichlorofluoromethane | 0.35 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2,3-Trichloropropane | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2,4-Trimethylbenzene | 1.1 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.24 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.40 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Vinyl Bromide | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Vinyl Chloride | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| o-Xylene | 0.38 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 09:59 | ECB | A |
| m-Xylene | 0.73 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Acetone | 3 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:59 | ECB | A |
| tert-Amyl methyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357005 | | | Date Collected: | 10/14/2011 12:45 | | Matrix: | Air | | | |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-103I-101411 | | | Date Received: | 10/15/2011 09:00 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Bromodichloromethane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Bromoform | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Bromomethane | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,3-Butadiene | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:59 | ECB | A |
| n-Butane | 0.2U | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 2-Butanone | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:59 | ECB | A |
| tert-Butyl Alcohol | 0.9 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Carbon Disulfide | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Carbon Tetrachloride | 0.9J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chlorobenzene | 0.5J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chlorodibromomethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chloroethane | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chloroform | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Chloromethane | 0.4J | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 3-Chloro-1-propene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:59 | ECB | A |
| o-Chlorotoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Cyclohexane | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2-Dibromoethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,3-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,4-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Dichlorodifluoromethane | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1-Dichloroethane | 2 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2-Dichloroethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1-Dichloroethene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| cis-1,2-Dichloroethene | 12 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| trans-1,2-Dichloroethene | 1 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2-Dichloropropane | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| cis-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| trans-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,3-Dichloropropene, Total | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,4-Dioxane | 0.4J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Ethanol | 1 | ug/m3 | 2,3 | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Ethyl tert-butyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Ethylbenzene | 1 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 4-Ethyltoluene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Freon 113 | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Freon-114 | 0.8J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 09:59 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357005 | Date Collected: 10/14/2011 12:45 | | | | | Matrix: | Air | | | |
|----------------------------|------------------------|----------------------------------|-----------|--------|-----|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-103I-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Hexachlorobutadiene | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Hexane | 0.6J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 2-Hexanone | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Isopropyl Alcohol | 0.5J | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Isopropylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| p-Isopropyltoluene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Methyl Methacrylate | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Methyl t-Butyl Ether | 0.6J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Methylene Chloride | 1 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Naphthalene | 2 | ug/m3 | 4 | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| iso-Octane | 0.5J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| n-Propylbenzene | 0.9J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Propylene | 0.2U | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Styrene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Tetrachloroethene | 590 | ug/m3 | | 14 | 7 | 7 | TO-15 | | 10/26/11 08:24 | ECB | A |
| Tetrahydrofuran | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Toluene | 1 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Total Xylenes | 5 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1,1-Trichloroethane | 6 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,1,2-Trichloroethane | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Trichloroethene | 97 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Trichlorofluoromethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2,3-Trichloropropane | 0.6J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2,4-Trimethylbenzene | 5 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,3,5-Trimethylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| 1,2,3-Trimethylbenzene | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Vinyl Bromide | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Vinyl Chloride | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 09:59 | ECB | A |
| o-Xylene | 2 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 09:59 | ECB | A |
| mp-Xylene | 3 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 09:59 | ECB | A |
| Surrogate Recoveries | Results | Units | Footnotes | Limits | | | Method | Prepared | Analyzed | By | Cntr |
| 4-Bromofluorobenzene (S) | 101 | % | | 70-130 | | | TO-15 | | 10/26/11 08:24 | ECB | A |
| 4-Bromofluorobenzene (S) | 105 | % | | 70-130 | | | TO-15 | | 10/27/11 09:59 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357005** Date Collected: 10/14/2011 12:45 Matrix: Air
Sample ID: **SVE-103I-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

Several compounds were detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357006 | Date Collected: | 10/14/2011 12:45 | Matrix: | Air |
| Sample ID: | SVE-103D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|-----|-----|-----|--------|----------|----------|----------------|-------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 4.1 | ppbv | | 6 | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Acrylonitrile | 1.0U | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| tert-Amyl methyl ether | 1.5J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Benzene | 1.8J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Benzyl Chloride | 1.0U | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Bromodichloromethane | 1.0U | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Bromoform | 1.4J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Bromomethane | 1.7J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,3-Butadiene | 1.0U | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| n-Butane | 1.0U | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 2-Butanone | 1.9J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| tert-Butyl Alcohol | 1.5J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Carbon Disulfide | 1.8J | ppbv | 6 | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Carbon Tetrachloride | 1.9J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Chlorobenzene | 1.7J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Chlorodibromomethane | 1.6J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Chloroethane | 1.9J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Chloroform | 6.0 | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Chloromethane | 1.8J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 3-Chloro-1-propene | 1.4J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| o-Chlorotoluene | 1.5J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Cyclohexane | 1.5J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,2-Dibromoethane | 1.4J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,2-Dichlorobenzene | 1.6J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,3-Dichlorobenzene | 1.3J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,4-Dichlorobenzene | 1.3J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Dichlorodifluoromethane | 2.0 | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,1-Dichloroethane | 2.1 | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,2-Dichloroethane | 1.6J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,1-Dichloroethene | 1.5J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| cis-1,2-Dichloroethene | 40 | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| trans-1,2-Dichloroethene | 1.9J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,2-Dichloropropane | 1.8J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| cis-1,3-Dichloropropene | 1.3J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| trans-1,3-Dichloropropene | 1.2J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,3-Dichloropropene, Total | 2.5J | ppbv | | | 4.0 | 2.0 | 2.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Diisopropyl ether | 1.5J | ppbv | | | 2.0 | 1.4 | 1.4 | TO-15 | | 10/28/11 05:21 | ECB A |
| 1,4-Dioxane | 1.8J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Ethanol | 4.6 | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |
| Ethyl Acetate | 1.4U | ppbv | | | 2.0 | 1.4 | 1.4 | TO-15 | | 10/28/11 05:21 | ECB A |
| Ethyl tert-butyl ether | 1.2J | ppbv | | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/28/11 05:21 | ECB A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357006 | | | Date Collected: | 10/14/2011 12:45 | | Matrix: | Air |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------------|
| Sample ID: | SVE-103D-101411 | | | Date Received: | 10/15/2011 09:00 | | | |
| <hr/> | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared |
| Ethylbenzene | 1.5J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 4-Ethyltoluene | 1.6J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Freon 113 | 2.6 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Freon-114 | 1.7J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Heptane | 1.3J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Hexachlorobutadiene | 1.7J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Hexane | 1.7J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 2-Hexanone | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Isopropyl Alcohol | 1.9J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Isopropylbenzene | 1.6J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| p-Isopropyltoluene | 1.3J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Methyl methacrylate | 1.3J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Methyl t-Butyl Ether | 1.5J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 4-Methyl-2-Pentanone(MIBK) | 1.6J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Methylene Chloride | 3.3 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Naphthalene | 1.0J | ppbv | 7 | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| iso-Octane | 1.7J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| n-Propylbenzene | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Propylene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Styrene | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 1,1,2,2-Tetrachloroethane | 1.7J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Tetrachloroethene | 990 | ppbv | | 6.0 | 3.0 | 3.0 | TO-15 | 10/28/11 11:49 |
| Tetrahydrofuran | 2.1 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Toluene | 1.6J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Total Xylenes | 4.8J | ppbv | | 6.0 | 3.0 | 3.0 | TO-15 | 10/28/11 05:21 |
| 1,2,4-Trichlorobenzene | 1.2J | ppbv | 8 | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 1,1,1-Trichloroethane | 5.6 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 1,1,2-Trichloroethane | 1.8J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Trichloroethene | 44 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Trichlorofluoromethane | 2.0 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 1,2,3-Trichloropropane | 1.9J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 1,2,4-Trimethylbenzene | 1.8J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 1,3,5-Trimethylbenzene | 1.6J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| 1,2,3-Trimethylbenzene | 1.5J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Vinyl Acetate | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Vinyl Bromide | 1.8J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| Vinyl Chloride | 1.8J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| o-Xylene | 1.6J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 05:21 |
| m-Xylene | 3.3J | ppbv | | 4.0 | 2.0 | 2.0 | TO-15 | 10/28/11 05:21 |
| Acetone | 10 | ug/m3 | 6 | 5 | 2 | 2 | TO-15 | 10/28/11 05:21 |
| Acrylonitrile | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 10/28/11 05:21 |
| tert-Amyl methyl ether | 6J | ug/m3 | | 8 | 4 | 4 | TO-15 | 10/28/11 05:21 |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357006 | | | Date Collected: | 10/14/2011 12:45 | | Matrix: | Air | | | |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-103D-101411 | | | Date Received: | 10/15/2011 09:00 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 6J | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Benzyl Chloride | 5U | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Bromodichloromethane | 7U | ug/m3 | | 13 | 7 | 7 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Bromoform | 14J | ug/m3 | | 21 | 10 | 10 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Bromomethane | 6J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,3-Butadiene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/28/11 05:21 | ECB | A |
| n-Butane | 2U | ug/m3 | | 5 | 2 | 2 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 2-Butanone | 6J | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/28/11 05:21 | ECB | A |
| tert-Butyl Alcohol | 5J | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Carbon Disulfide | 6J | ug/m3 | 6 | 6 | 3 | 3 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Carbon Tetrachloride | 12J | ug/m3 | | 13 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Chlorobenzene | 8J | ug/m3 | | 9 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Chlorodibromomethane | 14J | ug/m3 | | 17 | 8 | 8 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Chloroethane | 5J | ug/m3 | | 5 | 3 | 3 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Chloroform | 29 | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Chloromethane | 4J | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 3-Chloro-1-propene | 4J | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/28/11 05:21 | ECB | A |
| o-Chlorotoluene | 8J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Cyclohexane | 5J | ug/m3 | | 7 | 3 | 3 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,2-Dibromoethane | 11J | ug/m3 | | 15 | 8 | 8 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,2-Dichlorobenzene | 9J | ug/m3 | | 12 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,3-Dichlorobenzene | 8J | ug/m3 | | 12 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,4-Dichlorobenzene | 8J | ug/m3 | | 12 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Dichlorodifluoromethane | 10 | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,1-Dichloroethane | 9 | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,2-Dichloroethane | 6J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,1-Dichloroethene | 6J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| cis-1,2-Dichloroethene | 160 | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| trans-1,2-Dichloroethene | 7J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,2-Dichloropropane | 8J | ug/m3 | | 9 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| cis-1,3-Dichloropropene | 6J | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| trans-1,3-Dichloropropene | 5J | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,3-Dichloropropene, Total | 11J | ug/m3 | | 18 | 9 | 9 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Diisopropyl ether | 6J | ug/m3 | | 8 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,4-Dioxane | 6J | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Ethanol | 9 | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Ethyl Acetate | 5U | ug/m3 | | 8 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Ethyl tert-butyl ether | 5J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Ethylbenzene | 7J | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 4-Ethyltoluene | 8J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Freon 113 | 20 | ug/m3 | | 15 | 8 | 8 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Freon-114 | 12J | ug/m3 | | 14 | 7 | 7 | TO-15 | | 10/28/11 05:21 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357006 | Date Collected: 10/14/2011 12:45 | | | | | Matrix: | Air | | | |
|-----------------------------|------------------------|----------------------------------|------------------|---------------|-----|----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-103D-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 5J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Hexachlorobutadiene | 18J | ug/m3 | | 21 | 11 | 11 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Hexane | 6J | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 2-Hexanone | 5J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Isopropyl Alcohol | 5J | ug/m3 | | 5 | 2 | 2 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Isopropylbenzene | 8J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| p-Isopropyltoluene | 7J | ug/m3 | | 11 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Methyl Methacrylate | 5J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Methyl t-Butyl Ether | 6J | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 6J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Methylene Chloride | 11 | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Naphthalene | 5J | ug/m3 | 7 | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| iso-Octane | 8J | ug/m3 | | 9 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| n-Propylbenzene | 6J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Propylene | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Styrene | 5J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 12J | ug/m3 | | 14 | 7 | 7 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Tetrachloroethene | 6700 | ug/m3 | | 41 | 20 | 20 | TO-15 | | 10/28/11 11:49 | ECB | A |
| Tetrahydrofuran | 6 | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Toluene | 6J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Total Xylenes | 21J | ug/m3 | | 26 | 13 | 13 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,2,4-Trichlorobenzene | 9J | ug/m3 | 8 | 15 | 7 | 7 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,1,1-Trichloroethane | 31 | ug/m3 | | 11 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,1,2-Trichloroethane | 10J | ug/m3 | | 11 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Trichloroethene | 240 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Trichlorofluoromethane | 11 | ug/m3 | | 11 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,2,3-Trichloropropane | 11J | ug/m3 | | 12 | 6 | 6 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,2,4-Trimethylbenzene | 9J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,3,5-Trimethylbenzene | 8J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| 1,2,3-Trimethylbenzene | 7J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Vinyl Acetate | 4U | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Vinyl Bromide | 8J | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| Vinyl Chloride | 5J | ug/m3 | | 5 | 3 | 3 | TO-15 | | 10/28/11 05:21 | ECB | A |
| o-Xylene | 7J | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/28/11 05:21 | ECB | A |
| mp-Xylene | 14J | ug/m3 | | 17 | 9 | 9 | TO-15 | | 10/28/11 05:21 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 108 | % | | 70-130 | | | TO-15 | | 10/28/11 05:21 | ECB | A |
| 4-Bromofluorobenzene (S) | 100 | % | | 70-130 | | | TO-15 | | 10/28/11 11:49 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357006** Date Collected: 10/14/2011 12:45 Matrix: Air
Sample ID: **SVE-103D-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

One or more of the method TO15 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357007 | Date Collected: | 10/14/2011 12:45 | Matrix: | Air |
| Sample ID: | SVE-104I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 1.9 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| tert-Amyl methyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Benzene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Bromodichloromethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Bromoform | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Bromomethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,3-Butadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| n-Butane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 2-Butanone | 0.26 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| tert-Butyl Alcohol | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Carbon Disulfide | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Carbon Tetrachloride | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chlorodibromomethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chloroform | 0.27 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chloromethane | 0.39 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 3-Chloro-1-propene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| o-Chlorotoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Cyclohexane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2-Dibromoethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,3-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,4-Dichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Dichlorodifluoromethane | 0.48 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1-Dichloroethane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2-Dichloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1-Dichloroethene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| cis-1,2-Dichloroethene | 0.81 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| trans-1,2-Dichloroethene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2-Dichloropropane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| cis-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| trans-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,3-Dichloropropene, Total | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,4-Dioxane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Ethanol | 1.4 | ppbv | 2,3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Ethyl tert-butyl ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357007 | Date Collected: | 10/14/2011 12:45 | Matrix: | Air |
| Sample ID: | SVE-104I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| Ethylbenzene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 4-Ethyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Freon 113 | 0.23 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Freon-114 | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Heptane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Hexachlorobutadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Hexane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 2-Hexanone | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Isopropyl Alcohol | 0.21 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Isopropylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| p-Isopropyltoluene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Methyl methacrylate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Methyl t-Butyl Ether | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Methylene Chloride | 0.26 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Naphthalene | 0.12J | ppbv | 4 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| iso-Octane | 0.10J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| n-Propylbenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Propylene | 0.23 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Styrene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Tetrachloroethene | 4.8 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Tetrahydrofuran | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Toluene | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Total Xylenes | 0.49J | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1,1-Trichloroethane | 0.38 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1,2-Trichloroethane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Trichloroethene | 4.6 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Trichlorofluoromethane | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2,3-Trichloropropane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.31 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Vinyl Acetate | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Vinyl Bromide | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Vinyl Chloride | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| o-Xylene | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 11:49 | ECB | A |
| m-Xylene | 0.33J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Acetone | 5 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 11:49 | ECB | A |
| tert-Amyl methyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357007 | | | Date Collected: | 10/14/2011 12:45 | | Matrix: | Air | | | |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-104I-101411 | | | Date Received: | 10/15/2011 09:00 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.4J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Bromodichloromethane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Bromoform | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Bromomethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,3-Butadiene | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 11:49 | ECB | A |
| n-Butane | 0.2U | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 2-Butanone | 0.8 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 11:49 | ECB | A |
| tert-Butyl Alcohol | 0.3J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Carbon Disulfide | 0.5J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Carbon Tetrachloride | 1J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chlorobenzene | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chlorodibromomethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chloroethane | 0.3U | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chloroform | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Chloromethane | 0.8 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 3-Chloro-1-propene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 11:49 | ECB | A |
| o-Chlorotoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Cyclohexane | 0.3U | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2-Dibromoethane | 0.8U | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,3-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,4-Dichlorobenzene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Dichlorodifluoromethane | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1-Dichloroethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2-Dichloroethane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1-Dichloroethene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| cis-1,2-Dichloroethene | 3 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| trans-1,2-Dichloroethene | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2-Dichloropropane | 0.5U | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| cis-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| trans-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,3-Dichloropropene, Total | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,4-Dioxane | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Ethanol | 3 | ug/m3 | 2,3 | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Ethyl tert-butyl ether | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Ethylbenzene | 0.6J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 4-Ethyltoluene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Freon 113 | 2 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Freon-114 | 0.7J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 11:49 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357007 | Date Collected: 10/14/2011 12:45 | | | | | Matrix: | Air | | | |
|-----------------------------|------------------------|----------------------------------|------------------|---------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-104I-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Hexachlorobutadiene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Hexane | 0.4J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 2-Hexanone | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Isopropyl Alcohol | 0.5 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Isopropylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| p-Isopropyltoluene | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Methyl Methacrylate | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Methyl t-Butyl Ether | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Methylene Chloride | 0.9 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Naphthalene | 0.7J | ug/m3 | 4 | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| iso-Octane | 0.5J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| n-Propylbenzene | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Propylene | 0.4 | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Styrene | 0.4U | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Tetrachloroethene | 33 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Tetrahydrofuran | 0.8 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Toluene | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Total Xylenes | 2J | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.7U | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1,1-Trichloroethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,1,2-Trichloroethane | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Trichloroethene | 25 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Trichlorofluoromethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2,3-Trichloropropane | 0.6U | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2,4-Trimethylbenzene | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.5J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.7J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Vinyl Acetate | 0.5J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Vinyl Bromide | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| Vinyl Chloride | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 11:49 | ECB | A |
| o-Xylene | 0.7J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 11:49 | ECB | A |
| mp-Xylene | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 11:49 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 98 | % | | 70-130 | | | TO-15 | | 10/27/11 11:49 | ECB | A |

Sample Comments:

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357007** Date Collected: 10/14/2011 12:45 Matrix: Air
Sample ID: **SVE-104I-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Several compounds were detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

A handwritten signature in black ink that reads "Anna G. Milliken".
Anna G. Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357008 | Date Collected: | 10/14/2011 12:45 | Matrix: | Air |
| Sample ID: | SVE-104D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|-----|-----|-----|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 3.2 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Acrylonitrile | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| tert-Amyl methyl ether | 1.0J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Benzene | 1.3J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Benzyl Chloride | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Bromodichloromethane | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Bromoform | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Bromomethane | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,3-Butadiene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| n-Butane | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 2-Butanone | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| tert-Butyl Alcohol | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Carbon Disulfide | 1.3J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Carbon Tetrachloride | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chlorobenzene | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chlorodibromomethane | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chloroethane | 1.4J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chloroform | 1.9J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chloromethane | 1.4J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 3-Chloro-1-propene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| o-Chlorotoluene | 1.0J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Cyclohexane | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2-Dibromoethane | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2-Dichlorobenzene | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,3-Dichlorobenzene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,4-Dichlorobenzene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Dichlorodifluoromethane | 1.5J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1-Dichloroethane | 19 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2-Dichloroethane | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1-Dichloroethene | 1.8J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| cis-1,2-Dichloroethene | 520 | ppbv | | 6.0 | 3.0 | 3.0 | TO-15 | | 10/28/11 06:46 | ECB | A |
| trans-1,2-Dichloroethene | 5.5 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2-Dichloropropane | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| cis-1,3-Dichloropropene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| trans-1,3-Dichloropropene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,3-Dichloropropene, Total | 2.0U | ppbv | | 4.0 | 2.0 | 2.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Diisopropyl ether | 1.4U | ppbv | | 2.0 | 1.4 | 1.4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,4-Dioxane | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Ethanol | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Ethyl Acetate | 1.4U | ppbv | | 2.0 | 1.4 | 1.4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Ethyl tert-butyl ether | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357008 | Date Collected: | 10/14/2011 12:45 | Matrix: | Air |
| Sample ID: | SVE-104D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|-----|-----|-----|--------|----------|----------------|-----|------|
| Ethylbenzene | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 4-Ethyltoluene | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Freon 113 | 72 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Freon-114 | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Heptane | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Hexachlorobutadiene | 1.3J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Hexane | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 2-Hexanone | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Isopropyl Alcohol | 1.8J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Isopropylbenzene | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| p-Isopropyltoluene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Methyl methacrylate | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Methyl t-Butyl Ether | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Methylene Chloride | 1.9J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Naphthalene | 1.0J | ppbv | 4 | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| iso-Octane | 1.3J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| n-Propylbenzene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Propylene | 1.5J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Styrene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Tetrachloroethene | 940 | ppbv | | 6.0 | 3.0 | 3.0 | TO-15 | | 10/28/11 06:46 | ECB | A |
| Tetrahydrofuran | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Toluene | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Total Xylenes | 3.3J | ppbv | | 6.0 | 3.0 | 3.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2,4-Trichlorobenzene | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1,1-Trichloroethane | 81 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1,2-Trichloroethane | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Trichloroethene | 250 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Trichlorofluoromethane | 1.3J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2,3-Trichloropropane | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2,4-Trimethylbenzene | 1.4J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,3,5-Trimethylbenzene | 1.0J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2,3-Trimethylbenzene | 1.2J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Vinyl Acetate | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Vinyl Bromide | 1.0U | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Vinyl Chloride | 1.9J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| o-Xylene | 1.1J | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| m-Xylene | 2.2J | ppbv | | 4.0 | 2.0 | 2.0 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Acetone | 8 | ug/m3 | | 5 | 2 | 2 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Acrylonitrile | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/27/11 12:35 | ECB | A |
| tert-Amyl methyl ether | 4J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357008 | Date Collected: | 10/14/2011 12:45 | Matrix: | Air |
| Sample ID: | SVE-104D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|----------------------------|---------|-------|-----------|-----|-----|----|--------|----------|----------------|-----|------|
| Benzene | 4J | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Benzyl Chloride | 5U | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Bromodichloromethane | 7J | ug/m3 | | 13 | 7 | 7 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Bromoform | 11J | ug/m3 | | 21 | 10 | 10 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Bromomethane | 5J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,3-Butadiene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/27/11 12:35 | ECB | A |
| n-Butane | 2U | ug/m3 | | 5 | 2 | 2 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 2-Butanone | 3J | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/27/11 12:35 | ECB | A |
| tert-Butyl Alcohol | 3J | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Carbon Disulfide | 4J | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Carbon Tetrachloride | 8J | ug/m3 | | 13 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chlorobenzene | 5J | ug/m3 | | 9 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chlorodibromomethane | 10J | ug/m3 | | 17 | 8 | 8 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chloroethane | 4J | ug/m3 | | 5 | 3 | 3 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chloroform | 9J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Chloromethane | 3J | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 3-Chloro-1-propene | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/27/11 12:35 | ECB | A |
| o-Chlorotoluene | 5J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Cyclohexane | 3U | ug/m3 | | 7 | 3 | 3 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2-Dibromoethane | 9J | ug/m3 | | 15 | 8 | 8 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2-Dichlorobenzene | 7J | ug/m3 | | 12 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,3-Dichlorobenzene | 6U | ug/m3 | | 12 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,4-Dichlorobenzene | 6U | ug/m3 | | 12 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Dichlorodifluoromethane | 8J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1-Dichloroethane | 77 | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2-Dichloroethane | 5J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1-Dichloroethene | 7J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| cis-1,2-Dichloroethene | 2100 | ug/m3 | | 24 | 12 | 12 | TO-15 | | 10/28/11 06:46 | ECB | A |
| trans-1,2-Dichloroethene | 22 | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2-Dichloropropane | 5J | ug/m3 | | 9 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| cis-1,3-Dichloropropene | 4U | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| trans-1,3-Dichloropropene | 4U | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,3-Dichloropropene, Total | 9U | ug/m3 | | 18 | 9 | 9 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Diisopropyl ether | 6U | ug/m3 | | 8 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,4-Dioxane | 4J | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Ethanol | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Ethyl Acetate | 5U | ug/m3 | | 8 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Ethyl tert-butyl ether | 4U | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Ethylbenzene | 5J | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 4-Ethyltoluene | 5J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Freon 113 | 550 | ug/m3 | | 15 | 8 | 8 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Freon-114 | 9J | ug/m3 | | 14 | 7 | 7 | TO-15 | | 10/27/11 12:35 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357008 | Date Collected: | 10/14/2011 12:45 | Matrix: | Air |
| Sample ID: | SVE-104D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|-----------------------------|----------------|--------------|------------------|---------------|-----|----|---------------|-----------------|-----------------|-----------|-------------|
| Heptane | 5J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Hexachlorobutadiene | 14J | ug/m3 | | 21 | 11 | 11 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Hexane | 4J | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 2-Hexanone | 4U | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Isopropyl Alcohol | 4J | ug/m3 | | 5 | 2 | 2 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Isopropylbenzene | 6J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| p-Isopropyltoluene | 6U | ug/m3 | | 11 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Methyl Methacrylate | 4U | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Methyl t-Butyl Ether | 4J | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 4U | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Methylene Chloride | 6J | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Naphthalene | 5J | ug/m3 | 4 | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| iso-Octane | 6J | ug/m3 | | 9 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| n-Propylbenzene | 5U | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Propylene | 3J | ug/m3 | | 3 | 2 | 2 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Styrene | 4U | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 9J | ug/m3 | | 14 | 7 | 7 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Tetrachloroethene | 6300 | ug/m3 | | 41 | 20 | 20 | TO-15 | | 10/28/11 06:46 | ECB | A |
| Tetrahydrofuran | 3J | ug/m3 | | 6 | 3 | 3 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Toluene | 4J | ug/m3 | | 8 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Total Xylenes | 14J | ug/m3 | | 26 | 13 | 13 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2,4-Trichlorobenzene | 7U | ug/m3 | | 15 | 7 | 7 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1,1-Trichloroethane | 440 | ug/m3 | | 11 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,1,2-Trichloroethane | 7J | ug/m3 | | 11 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Trichloroethene | 1300 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Trichlorofluoromethane | 7J | ug/m3 | | 11 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2,3-Trichloropropane | 7J | ug/m3 | | 12 | 6 | 6 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2,4-Trimethylbenzene | 7J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,3,5-Trimethylbenzene | 5J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| 1,2,3-Trimethylbenzene | 6J | ug/m3 | | 10 | 5 | 5 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Vinyl Acetate | 4J | ug/m3 | | 7 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Vinyl Bromide | 4U | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| Vinyl Chloride | 5J | ug/m3 | | 5 | 3 | 3 | TO-15 | | 10/27/11 12:35 | ECB | A |
| o-Xylene | 5J | ug/m3 | | 9 | 4 | 4 | TO-15 | | 10/27/11 12:35 | ECB | A |
| mp-Xylene | 10J | ug/m3 | | 17 | 9 | 9 | TO-15 | | 10/27/11 12:35 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 100 | % | | 70-130 | | | TO-15 | | 10/27/11 12:35 | ECB | A |
| 4-Bromofluorobenzene (S) | 104 | % | | 70-130 | | | TO-15 | | 10/28/11 06:46 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357008** Date Collected: 10/14/2011 12:45 Matrix: Air
Sample ID: **SVE-104D-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Several compounds were detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357009 | Date Collected: | 10/14/2011 12:02 | Matrix: | Air |
| Sample ID: | SVE-105I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 1.7 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| tert-Amyl methyl ether | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Benzene | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Bromodichloromethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Bromoform | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Bromomethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,3-Butadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| n-Butane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 2-Butanone | 0.39 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| tert-Butyl Alcohol | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Carbon Disulfide | 0.20J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Carbon Tetrachloride | 0.21 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chlorobenzene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chlorodibromomethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chloroethane | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chloroform | 0.53 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chloromethane | 0.21 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 3-Chloro-1-propene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| o-Chlorotoluene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Cyclohexane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2-Dibromoethane | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2-Dichlorobenzene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,3-Dichlorobenzene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,4-Dichlorobenzene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Dichlorodifluoromethane | 0.52 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,1-Dichloroethane | 1.8 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2-Dichloroethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,1-Dichloroethene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| cis-1,2-Dichloroethene | 4.1 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| trans-1,2-Dichloroethene | 0.26 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2-Dichloropropane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| cis-1,3-Dichloropropene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| trans-1,3-Dichloropropene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,3-Dichloropropene, Total | 0.21J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,4-Dioxane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Ethanol | 1.1 | ppbv | 2,3 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Ethyl tert-butyl ether | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/27/11 06:23 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357009 | | | Date Collected: | 10/14/2011 12:02 | | Matrix: | Air |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|------|---------|----------------------|
| Sample ID: | SVE-105I-101411 | | | Date Received: | 10/15/2011 09:00 | | | |
| <hr/> | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared |
| Ethylbenzene | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 4-Ethyltoluene | 0.30 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Freon 113 | 0.38 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Freon-114 | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Heptane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Hexachlorobutadiene | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Hexane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 2-Hexanone | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Isopropyl Alcohol | 2.8 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Isopropylbenzene | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| p-Isopropyltoluene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Methyl methacrylate | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Methyl t-Butyl Ether | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 4-Methyl-2-Pentanone(MIBK) | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Methylene Chloride | 0.42 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Naphthalene | 1.5 | ppbv | 4 | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| iso-Octane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| n-Propylbenzene | 0.22 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Propylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Styrene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 1,1,2,2-Tetrachloroethane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Tetrachloroethene | 15 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Tetrahydrofuran | 0.61 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Toluene | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Total Xylenes | 1.3 | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | 10/27/11 06:23 ECB A |
| 1,2,4-Trichlorobenzene | 0.14J | ppbv | 5 | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 1,1,1-Trichloroethane | 5.7 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 1,1,2-Trichloroethane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Trichloroethene | 38 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 06:04 ECB A |
| Trichlorofluoromethane | 0.33 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 1,2,3-Trichloropropane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 1,2,4-Trimethylbenzene | 1.4 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 1,3,5-Trimethylbenzene | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| 1,2,3-Trimethylbenzene | 0.46 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Vinyl Bromide | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| Vinyl Chloride | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| o-Xylene | 0.44 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/27/11 06:23 ECB A |
| m-Xylene | 0.86 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | 10/27/11 06:23 ECB A |
| Acetone | 4 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | 10/27/11 06:23 ECB A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | 10/27/11 06:23 ECB A |
| tert-Amyl methyl ether | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 10/27/11 06:23 ECB A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357009 | | | Date Collected: | 10/14/2011 12:02 | | Matrix: | Air | | | |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-105I-101411 | | | Date Received: | 10/15/2011 09:00 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.6J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Bromodichloromethane | 0.9J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Bromoform | 1J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Bromomethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,3-Butadiene | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 06:23 | ECB | A |
| n-Butane | 0.2U | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 2-Butanone | 1 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 06:23 | ECB | A |
| tert-Butyl Alcohol | 0.4J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Carbon Disulfide | 0.6J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Carbon Tetrachloride | 1 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chlorobenzene | 0.6J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chlorodibromomethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chloroethane | 0.4J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chloroform | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Chloromethane | 0.4 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 3-Chloro-1-propene | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 06:23 | ECB | A |
| o-Chlorotoluene | 0.7J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Cyclohexane | 0.5J | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2-Dibromoethane | 0.8J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2-Dichlorobenzene | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,3-Dichlorobenzene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,4-Dichlorobenzene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,1-Dichloroethane | 7 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2-Dichloroethane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,1-Dichloroethene | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| cis-1,2-Dichloroethene | 16 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| trans-1,2-Dichloroethene | 1 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2-Dichloropropane | 0.6J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| cis-1,3-Dichloropropene | 0.5J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| trans-1,3-Dichloropropene | 0.5J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,3-Dichloropropene, Total | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,4-Dioxane | 0.6J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Ethanol | 2 | ug/m3 | 2,3 | 0.4 | 0.2 | 0.2 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Ethyl tert-butyl ether | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Ethylbenzene | 1 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 4-Ethyltoluene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Freon 113 | 3 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Freon-114 | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 06:23 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357009 | Date Collected: 10/14/2011 12:02 | | | | | Matrix: | Air | | | |
|-----------------------------|------------------------|----------------------------------|------------------|---------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-105I-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Hexachlorobutadiene | 2J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Hexane | 0.5J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 2-Hexanone | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Isopropyl Alcohol | 7 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Isopropylbenzene | 0.8J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| p-Isopropyltoluene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Methyl Methacrylate | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Methyl t-Butyl Ether | 0.4J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Methylene Chloride | 1 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Naphthalene | 8 | ug/m3 | 4 | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| iso-Octane | 0.7J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| n-Propylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Propylene | 0.2U | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Styrene | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.9J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Tetrachloroethene | 100 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Tetrahydrofuran | 2 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Toluene | 1 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Total Xylenes | 6 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2,4-Trichlorobenzene | 1J | ug/m3 | 5 | 1 | 0.7 | 0.7 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,1,1-Trichloroethane | 31 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,1,2-Trichloroethane | 0.9J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Trichloroethene | 200 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 10/28/11 06:04 | ECB | A |
| Trichlorofluoromethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2,3-Trichloropropane | 0.9J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2,4-Trimethylbenzene | 7 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,3,5-Trimethylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| 1,2,3-Trimethylbenzene | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Vinyl Bromide | 0.6J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| Vinyl Chloride | 0.3J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/27/11 06:23 | ECB | A |
| o-Xylene | 2 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/27/11 06:23 | ECB | A |
| mp-Xylene | 4 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/27/11 06:23 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 110 | % | | 70-130 | | | TO-15 | | 10/27/11 06:23 | ECB | A |
| 4-Bromofluorobenzene (S) | 105 | % | | 70-130 | | | TO-15 | | 10/28/11 06:04 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357009** Date Collected: 10/14/2011 12:02 Matrix: Air
Sample ID: **SVE-105I-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

Several compounds were detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.

Anna G. Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357010** Date Collected: 10/14/2011 12:02 Matrix: Air
Sample ID: **SVE-105D-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

ADMINISTRATIVE

| | | | |
|------------------|----------|----------------|----|
| Sample Cancelled | Canceled | 11/21/11 17:10 | TH |
|------------------|----------|----------------|----|

Sample Comments:

This sample was cancelled due coming to ALS from the client with no vacuum and the stem compromised in the field. TMH 11/21/11

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357011 | Date Collected: | 10/14/2011 12:02 | Matrix: | Air |
| Sample ID: | SVE-106I-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 3.9 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| tert-Amyl methyl ether | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Benzene | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Benzyl Chloride | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Bromodichloromethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Bromoform | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Bromomethane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,3-Butadiene | 0.25 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| n-Butane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 2-Butanone | 0.71 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| tert-Butyl Alcohol | 0.27 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Carbon Disulfide | 0.20 | ppbv | 6 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Carbon Tetrachloride | 0.41 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chlorobenzene | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chlorodibromomethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chloroethane | 0.19J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chloroform | 0.42 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chloromethane | 0.20 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 3-Chloro-1-propene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| o-Chlorotoluene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Cyclohexane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2-Dibromoethane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2-Dichlorobenzene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,3-Dichlorobenzene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,4-Dichlorobenzene | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Dichlorodifluoromethane | 0.54 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,1-Dichloroethane | 0.32 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2-Dichloroethane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,1-Dichloroethene | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| cis-1,2-Dichloroethene | 1.1 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| trans-1,2-Dichloroethene | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2-Dichloropropane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| cis-1,3-Dichloropropene | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| trans-1,3-Dichloropropene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,3-Dichloropropene, Total | 0.20U | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,4-Dioxane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Ethanol | 0.76 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Ethyl tert-butyl ether | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 07:29 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357011 | | | Date Collected: | 10/14/2011 12:02 | | Matrix: | Air |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|------|---------|----------------|
| Sample ID: | SVE-106I-101411 | | | Date Received: | 10/15/2011 09:00 | | | |
| <hr/> | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared |
| Ethylbenzene | 0.30 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| 4-Ethyltoluene | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| Freon 113 | 1.5 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Freon-114 | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| Heptane | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Hexachlorobutadiene | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| Hexane | 0.37 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| 2-Hexanone | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| Isopropyl Alcohol | 0.39 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Isopropylbenzene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| p-Isopropyltoluene | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Methyl methacrylate | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| Methyl t-Butyl Ether | 0.20J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| 4-Methyl-2-Pentanone(MIBK) | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| Methylene Chloride | 1.5 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Naphthalene | 0.40 | ppbv | 7 | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| iso-Octane | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| n-Propylbenzene | 0.19J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Propylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| Styrene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| 1,1,2,2-Tetrachloroethane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Tetrachloroethene | 2.8 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| Tetrahydrofuran | 0.83 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Toluene | 0.32 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Total Xylenes | 1.3 | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | ECB A |
| 1,2,4-Trichlorobenzene | 0.10J | ppbv | 8 | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| 1,1,1-Trichloroethane | 1.2 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| 1,1,2-Trichloroethane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Trichloroethene | 35 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 10:20 |
| Trichlorofluoromethane | 0.36 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| 1,2,3-Trichloropropane | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| 1,2,4-Trimethylbenzene | 1.2 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| 1,3,5-Trimethylbenzene | 0.28 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| 1,2,3-Trimethylbenzene | 0.43 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Vinyl Bromide | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| Vinyl Chloride | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | ECB A |
| o-Xylene | 0.46 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 07:29 |
| mp-Xylene | 0.86 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | 10/28/11 07:29 |
| Acetone | 9 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | ECB A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | 10/28/11 07:29 |
| tert-Amyl methyl ether | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | ECB A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357011 | Date Collected: 10/14/2011 12:02 | | | | | Matrix: | Air | | | |
|----------------------------|------------------------|----------------------------------|-----------|-----|-----|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-106I-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.6J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Benzyl Chloride | 0.5U | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Bromodichloromethane | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Bromoform | 2J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Bromomethane | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,3-Butadiene | 0.6 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/28/11 07:29 | ECB | A |
| n-Butane | 0.2U | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 2-Butanone | 2 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 07:29 | ECB | A |
| tert-Butyl Alcohol | 0.8 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Carbon Disulfide | 0.6 | ug/m3 | 6 | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Carbon Tetrachloride | 3 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chlorobenzene | 0.7J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chlorodibromomethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chloroethane | 0.5J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chloroform | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Chloromethane | 0.4 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 3-Chloro-1-propene | 0.4J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 07:29 | ECB | A |
| o-Chlorotoluene | 0.7J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Cyclohexane | 0.4J | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2-Dibromoethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2-Dichlorobenzene | 0.9J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,3-Dichlorobenzene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,4-Dichlorobenzene | 0.7J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,1-Dichloroethane | 1 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2-Dichloroethane | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,1-Dichloroethene | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| cis-1,2-Dichloroethene | 4 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| trans-1,2-Dichloroethene | 0.7J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2-Dichloropropane | 0.7J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| cis-1,3-Dichloropropene | 0.5J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| trans-1,3-Dichloropropene | 0.4U | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,3-Dichloropropene, Total | 0.9U | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,4-Dioxane | 0.6J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Ethanol | 1 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Ethyl tert-butyl ether | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Ethylbenzene | 1 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 4-Ethyltoluene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Freon 113 | 12 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Freon-114 | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 07:29 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357011 | Date Collected: 10/14/2011 12:02 | | | | | Matrix: | Air | | | |
|-----------------------------|------------------------|----------------------------------|------------------|---------------|-----|-----|---------------|-----------------|-----------------|-----------|-------------|
| Sample ID: | SVE-106I-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Hexachlorobutadiene | 2J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Hexane | 1 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 2-Hexanone | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Isopropyl Alcohol | 1 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Isopropylbenzene | 0.7J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| p-Isopropyltoluene | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Methyl Methacrylate | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Methyl t-Butyl Ether | 0.7 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Methylene Chloride | 5 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Naphthalene | 2 | ug/m3 | 7 | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| iso-Octane | 0.8J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| n-Propylbenzene | 0.9J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Propylene | 0.2U | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Styrene | 0.5J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Tetrachloroethene | 19 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Tetrahydrofuran | 2 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Toluene | 1 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Total Xylenes | 6 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.8J | ug/m3 | 8 | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,1,1-Trichloroethane | 7 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,1,2-Trichloroethane | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Trichloroethene | 190 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 10/28/11 10:20 | ECB | A |
| Trichlorofluoromethane | 2 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2,3-Trichloropropane | 0.9J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2,4-Trimethylbenzene | 6 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,3,5-Trimethylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| 1,2,3-Trimethylbenzene | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Vinyl Bromide | 0.7J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| Vinyl Chloride | 0.4J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/28/11 07:29 | ECB | A |
| o-Xylene | 2 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 07:29 | ECB | A |
| mp-Xylene | 4 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/28/11 07:29 | ECB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Units</i> | <i>Footnotes</i> | <i>Limits</i> | | | <i>Method</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 4-Bromofluorobenzene (S) | 107 | % | | 70-130 | | | TO-15 | | 10/28/11 07:29 | ECB | A |
| 4-Bromofluorobenzene (S) | 108 | % | | 70-130 | | | TO-15 | | 10/28/11 10:20 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357011** Date Collected: 10/14/2011 12:02 Matrix: Air
Sample ID: **SVE-106I-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

One of the method TO15 internal standards were recovered outside of the control limits in the diluted sample.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| | | | | | |
|------------|------------------------|-----------------|------------------|---------|-----|
| Lab ID: | 9932357012 | Date Collected: | 10/14/2011 12:02 | Matrix: | Air |
| Sample ID: | SVE-106D-101411 | Date Received: | 10/15/2011 09:00 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|------|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 2.5 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Acrylonitrile | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| tert-Amyl methyl ether | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Benzene | 0.19J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Benzyl Chloride | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Bromodichloromethane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Bromoform | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Bromomethane | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,3-Butadiene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| n-Butane | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 2-Butanone | 0.56 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| tert-Butyl Alcohol | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Carbon Disulfide | 0.21 | ppbv | 6 | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Carbon Tetrachloride | 2.8 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chlorobenzene | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chlorodibromomethane | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chloroethane | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chloroform | 1.1 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chloromethane | 0.29 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 3-Chloro-1-propene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| o-Chlorotoluene | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Cyclohexane | 0.12J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2-Dibromoethane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2-Dichlorobenzene | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,3-Dichlorobenzene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,4-Dichlorobenzene | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Dichlorodifluoromethane | 0.61 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,1-Dichloroethane | 0.73 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2-Dichloroethane | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,1-Dichloroethene | 0.20J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| cis-1,2-Dichloroethene | 0.99 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| trans-1,2-Dichloroethene | 0.22 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2-Dichloropropane | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| cis-1,3-Dichloropropene | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| trans-1,3-Dichloropropene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,3-Dichloropropene, Total | 0.28J | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Diisopropyl ether | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,4-Dioxane | 0.20J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Ethanol | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Ethyl Acetate | 0.14U | ppbv | | 0.20 | 0.14 | 0.14 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Ethyl tert-butyl ether | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | | 10/28/11 12:31 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357012 | | | Date Collected: | 10/14/2011 12:02 | | Matrix: | Air |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|------|---------|----------------------|
| Sample ID: | SVE-106D-101411 | | | Date Received: | 10/15/2011 09:00 | | | |
| <hr/> | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared |
| Ethylbenzene | 0.29 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 4-Ethyltoluene | 0.23 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Freon 113 | 3.3 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Freon-114 | 0.20J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Heptane | 0.14J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Hexachlorobutadiene | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Hexane | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 2-Hexanone | 0.19J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Isopropyl Alcohol | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Isopropylbenzene | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| p-Isopropyltoluene | 0.16J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Methyl methacrylate | 0.11J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Methyl t-Butyl Ether | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 4-Methyl-2-Pentanone(MIBK) | 0.15J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Methylene Chloride | 0.31 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Naphthalene | 0.59 | ppbv | 7 | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| iso-Octane | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| n-Propylbenzene | 0.19J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Propylene | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Styrene | 0.13J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 1,1,2,2-Tetrachloroethane | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Tetrachloroethene | 9.8 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Tetrahydrofuran | 0.66 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Toluene | 0.74 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Total Xylenes | 1.3 | ppbv | | 0.60 | 0.30 | 0.30 | TO-15 | 10/28/11 12:31 ECB A |
| 1,2,4-Trichlorobenzene | 0.13J | ppbv | 8 | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 1,1,1-Trichloroethane | 5.4 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 1,1,2-Trichloroethane | 0.17J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Trichloroethene | 59 | ppbv | | 2.0 | 1.0 | 1.0 | TO-15 | 10/28/11 08:11 ECB A |
| Trichlorofluoromethane | 0.47 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 1,2,3-Trichloropropane | 0.19J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 1,2,4-Trimethylbenzene | 0.80 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 1,3,5-Trimethylbenzene | 0.25 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| 1,2,3-Trimethylbenzene | 0.34 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Vinyl Acetate | 0.10U | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Vinyl Bromide | 0.20J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| Vinyl Chloride | 0.18J | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| o-Xylene | 0.41 | ppbv | | 0.20 | 0.10 | 0.10 | TO-15 | 10/28/11 12:31 ECB A |
| m-Xylene | 0.87 | ppbv | | 0.40 | 0.20 | 0.20 | TO-15 | 10/28/11 12:31 ECB A |
| Acetone | 6 | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | 10/28/11 12:31 ECB A |
| Acrylonitrile | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | 10/28/11 12:31 ECB A |
| tert-Amyl methyl ether | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | 10/28/11 12:31 ECB A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357012 | | | Date Collected: | 10/14/2011 12:02 | | Matrix: | Air | | | |
|----------------------------|------------------------|-------|-----------|-----------------|------------------|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-106D-101411 | | | Date Received: | 10/15/2011 09:00 | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Benzene | 0.6J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Benzyl Chloride | 0.6J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Bromodichloromethane | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Bromoform | 2J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Bromomethane | 0.7J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,3-Butadiene | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/28/11 12:31 | ECB | A |
| n-Butane | 0.2U | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 2-Butanone | 2 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 12:31 | ECB | A |
| tert-Butyl Alcohol | 0.3U | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Carbon Disulfide | 0.6 | ug/m3 | 6 | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Carbon Tetrachloride | 18 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chlorobenzene | 0.8J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chlorodibromomethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chloroethane | 0.4J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chloroform | 5 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Chloromethane | 0.6 | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 3-Chloro-1-propene | 0.4J | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 12:31 | ECB | A |
| o-Chlorotoluene | 0.9J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Cyclohexane | 0.4J | ug/m3 | | 0.7 | 0.3 | 0.3 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2-Dibromoethane | 1J | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2-Dichlorobenzene | 1J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,3-Dichlorobenzene | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,4-Dichlorobenzene | 0.8J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Dichlorodifluoromethane | 3 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,1-Dichloroethane | 3 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2-Dichloroethane | 0.7J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,1-Dichloroethene | 0.8 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| cis-1,2-Dichloroethene | 4 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| trans-1,2-Dichloroethene | 0.9 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2-Dichloropropane | 0.8J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| cis-1,3-Dichloropropene | 0.7J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| trans-1,3-Dichloropropene | 0.6J | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,3-Dichloropropene, Total | 1J | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Diisopropyl ether | 0.6U | ug/m3 | | 0.8 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,4-Dioxane | 0.7J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Ethanol | 0.2U | ug/m3 | | 0.4 | 0.2 | 0.2 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Ethyl Acetate | 0.5U | ug/m3 | | 0.8 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Ethyl tert-butyl ether | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Ethylbenzene | 1 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 4-Ethyltoluene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Freon 113 | 25 | ug/m3 | | 2 | 0.8 | 0.8 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Freon-114 | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 12:31 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

| Lab ID: | 9932357012 | Date Collected: 10/14/2011 12:02 | | | | | Matrix: | Air | | | |
|----------------------------|------------------------|----------------------------------|-----------|--------|-----|-----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-106D-101411 | Date Received: 10/15/2011 09:00 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Hexachlorobutadiene | 2J | ug/m3 | | 2 | 1 | 1 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Hexane | 0.6J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 2-Hexanone | 0.8J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Isopropyl Alcohol | 0.2U | ug/m3 | | 0.5 | 0.2 | 0.2 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Isopropylbenzene | 0.8J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| p-Isopropyltoluene | 0.9J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Methyl Methacrylate | 0.4J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Methyl t-Butyl Ether | 0.5J | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Methylene Chloride | 1 | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Naphthalene | 3 | ug/m3 | 7 | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| iso-Octane | 0.8J | ug/m3 | | 0.9 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| n-Propylbenzene | 0.9J | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Propylene | 0.2U | ug/m3 | | 0.3 | 0.2 | 0.2 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Styrene | 0.6J | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 1J | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Tetrachloroethene | 66 | ug/m3 | | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Tetrahydrofuran | 2 | ug/m3 | | 0.6 | 0.3 | 0.3 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Toluene | 3 | ug/m3 | | 0.8 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Total Xylenes | 6 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.9J | ug/m3 | 8 | 1 | 0.7 | 0.7 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,1,1-Trichloroethane | 29 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,1,2-Trichloroethane | 0.9J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Trichloroethene | 320 | ug/m3 | | 11 | 5 | 5 | TO-15 | | 10/28/11 08:11 | ECB | A |
| Trichlorofluoromethane | 3 | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2,3-Trichloropropane | 1J | ug/m3 | | 1 | 0.6 | 0.6 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2,4-Trimethylbenzene | 4 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,3,5-Trimethylbenzene | 1 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| 1,2,3-Trimethylbenzene | 2 | ug/m3 | | 1 | 0.5 | 0.5 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Vinyl Acetate | 0.4U | ug/m3 | | 0.7 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Vinyl Bromide | 0.9 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Vinyl Chloride | 0.5J | ug/m3 | | 0.5 | 0.3 | 0.3 | TO-15 | | 10/28/11 12:31 | ECB | A |
| o-Xylene | 2 | ug/m3 | | 0.9 | 0.4 | 0.4 | TO-15 | | 10/28/11 12:31 | ECB | A |
| mp-Xylene | 4 | ug/m3 | | 2 | 0.9 | 0.9 | TO-15 | | 10/28/11 12:31 | ECB | A |
| Surrogate Recoveries | Results | Units | Footnotes | Limits | | | Method | Prepared | Analyzed | By | Cntr |
| 4-Bromofluorobenzene (S) | 108 | % | | 70-130 | | | TO-15 | | 10/28/11 08:11 | ECB | A |
| 4-Bromofluorobenzene (S) | 108 | % | | 70-130 | | | TO-15 | | 10/28/11 12:31 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

Lab ID: **9932357012** Date Collected: 10/14/2011 12:02 Matrix: Air
Sample ID: **SVE-106D-101411** Date Received: 10/15/2011 09:00

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

Anna G Milliken
Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9932357 HNW028|NWIRP Bethpage QtrSite1

PARAMETER QUALIFIERS\FLAGS

- [1] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte n-Butane. The RPD was reported as 44 and the upper control limit is 30.
- [2] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Ethanol. The % Recovery was reported as 160 and the control limits were 60 to 140.
- [3] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Ethanol. The % Recovery was reported as 164 and the control limits were 60 to 140.
- [4] This compound was recovered above quality control criteria in the initial calibration verification standard associated with this sample. The % Recovery was reported as 194% and the control limits were 70% to 130%.
- [5] This compound was recovered above quality control criteria in the initial calibration verification standard associated with this sample. The % Recovery was reported as 143% and the control limits were 70% to 130%.
- [6] This compound was detected at less than the reporting limit but greater than 1/2 the reporting limit in the method blank.
- [7] This compound was recovered above quality control criteria in the initial calibration verification standard associated with this sample. The % Recovery was reported as 203% and the control limits were 70% to 130%.
- [8] This compound was recovered above quality control criteria in the initial calibration verification standard associated with this sample. The % Recovery was reported as 149% and the control limits were 70% to 130%.

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|--|--|---|-------|---|--|-----------------|--|--|--|--------------|--|--|--|--------------------------------|--|------------------------------|--|-------|--|---|--|--------------|--|-------------------------|--|----------------------|--|--------------------------|--|----------------------|--|-------------------------|--|----------------------|--|--------------------------|--|----------------------|--|-------------------------|--|----------------------|--|--------------------------|--|----------------------|--|-------------------------|--|----------------------|--|--------------------------|--|----------------------|--|--|--|--|--|--------------------------|--|--|--|--------------------------------|--|------|------|---------------------|--|----------|-------|---|--|--|--|---|--|--|--|---|--|--|--|-----------------------------|--|--|--|--------------------------|--|--|--|------|--|--|--|------|--|--|--|----------------------------|--|--|--|------|--|--|--|------|--|--|--|-----------------|--|--|--|----------|--|-----------------------------|--|--------------------------|--|---|--|--------------------------|--|--|--|--------------------------|--|---|--|
| Co. Name: H&S Environmental, Inc. | | Contact (Report): Jen Good | | Phone: 508-366-7442 | | Cutter: FED BX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ALL SHADDED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td colspan="2">Project Name#: NWIRP Bethpage Site 1 Quarterly Vapor</td> <td colspan="2">ALSI Quote#:</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> Normal Standard TAT is 10-12 business days. <input type="checkbox"/> Rush Subject to ALSI approval and surcharge.</td> <td colspan="2">Date Required: Approved By:</td> </tr> <tr> <td colspan="2">Email: <u>jgood@nemw.com</u></td> <td colspan="2">Fax#:</td> </tr> <tr> <td colspan="2">Sample Description/Location <small>(as it will appear on the lab report)</small></td> <td colspan="2">COC Comments</td> </tr> <tr> <td colspan="2">1 SVE-101-098644-101411</td> <td colspan="2">10/1/11 12/4 G AIR 1</td> </tr> <tr> <td colspan="2">2 SVE-101D-098644-101411</td> <td colspan="2">10/1/11 12/4 G AIR 1</td> </tr> <tr> <td colspan="2">3 SVE-102-098644-101411</td> <td colspan="2">10/2/11 12/4 G AIR 1</td> </tr> <tr> <td colspan="2">4 SVE-102D-098644-101411</td> <td colspan="2">10/2/11 12/4 G AIR 1</td> </tr> <tr> <td colspan="2">5 SVE-103-098644-101411</td> <td colspan="2">10/3/11 12/4 G AIR 1</td> </tr> <tr> <td colspan="2">6 SVE-103D-098644-101411</td> <td colspan="2">10/3/11 12/4 G AIR 1</td> </tr> <tr> <td colspan="2">7 SVE-104-098644-101411</td> <td colspan="2">10/4/11 12/4 G AIR 1</td> </tr> <tr> <td colspan="2">8 SVE-104D-098644-101411</td> <td colspan="2">10/4/11 12/4 G AIR 1</td> </tr> <tr> <td colspan="4">LOGGED BY (Please Print): <u>G. Gangemi</u></td> </tr> <tr> <td colspan="4">REVIEWED BY (Signature):</td> </tr> <tr> <td colspan="2">Relinquished By / Company Name</td> <td>Date</td> <td>Time</td> </tr> <tr> <td colspan="2">1 <u>G. Gangemi</u></td> <td>10/14/11</td> <td>13:24</td> </tr> <tr> <td colspan="2">3</td> <td></td> <td></td> </tr> <tr> <td colspan="2">5</td> <td></td> <td></td> </tr> <tr> <td colspan="2">7</td> <td></td> <td></td> </tr> <tr> <td colspan="4">SAMPLLED BY (Please Print):</td> </tr> <tr> <td colspan="4">Reviewed By (Signature):</td> </tr> <tr> <td colspan="4">Date</td> </tr> <tr> <td colspan="4">Time</td> </tr> <tr> <td colspan="4">Received by / Company Name</td> </tr> <tr> <td colspan="4">Date</td> </tr> <tr> <td colspan="4">Time</td> </tr> <tr> <td colspan="4">Data Delivered:</td> </tr> <tr> <td colspan="2">Standard</td> <td colspan="2">State Samples Collected in?</td> </tr> <tr> <td colspan="2"><input type="checkbox"/></td> <td colspan="2">SDWA Form? <input type="checkbox"/> MD <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> PA <input type="checkbox"/> Other _____</td> </tr> <tr> <td colspan="2"><input type="checkbox"/></td> <td colspan="2">Cl.P.Like <input type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> Reduced <input type="checkbox"/> NJ-Full <input type="checkbox"/> Other _____</td> </tr> <tr> <td colspan="2"><input type="checkbox"/></td> <td colspan="2">Data Form? <input type="checkbox"/> D-181 <input type="checkbox"/> D-182 <input type="checkbox"/> D-183 <input type="checkbox"/> D-184 <input type="checkbox"/> D-185 <input type="checkbox"/> D-186 <input type="checkbox"/> D-187 <input type="checkbox"/> D-188 <input type="checkbox"/> D-189 <input type="checkbox"/> D-190 <input type="checkbox"/> D-191 <input type="checkbox"/> D-192 <input type="checkbox"/> D-193 <input type="checkbox"/> D-194 <input type="checkbox"/> D-195 <input type="checkbox"/> D-196 <input type="checkbox"/> D-197 <input type="checkbox"/> D-198 <input type="checkbox"/> D-199 <input type="checkbox"/> D-200 <input type="checkbox"/> D-201 <input type="checkbox"/> D-202 <input type="checkbox"/> D-203 <input type="checkbox"/> D-204 <input 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type="checkbox"/> D-1160</td></tr></table> | | | | | | | | Project Name#: NWIRP Bethpage Site 1 Quarterly Vapor | | ALSI Quote#: | | <input checked="" type="checkbox"/> Normal Standard TAT is 10-12 business days. <input type="checkbox"/> Rush Subject to ALSI approval and surcharge. | | Date Required: Approved By: | | Email: <u>jgood@nemw.com</u> | | Fax#: | | Sample Description/Location <small>(as it will appear on the lab report)</small> | | COC Comments | | 1 SVE-101-098644-101411 | | 10/1/11 12/4 G AIR 1 | | 2 SVE-101D-098644-101411 | | 10/1/11 12/4 G AIR 1 | | 3 SVE-102-098644-101411 | | 10/2/11 12/4 G AIR 1 | | 4 SVE-102D-098644-101411 | | 10/2/11 12/4 G AIR 1 | | 5 SVE-103-098644-101411 | | 10/3/11 12/4 G AIR 1 | | 6 SVE-103D-098644-101411 | | 10/3/11 12/4 G AIR 1 | | 7 SVE-104-098644-101411 | | 10/4/11 12/4 G AIR 1 | | 8 SVE-104D-098644-101411 | | 10/4/11 12/4 G AIR 1 | | LOGGED BY (Please Print): <u>G. Gangemi</u> | | | | REVIEWED BY (Signature): | | | | Relinquished By / Company Name | | Date | Time | 1 <u>G. Gangemi</u> | | 10/14/11 | 13:24 | 3 | | | | 5 | | | | 7 | | | | SAMPLLED BY (Please Print): | | | | Reviewed By (Signature): | | | | Date | | | | Time | | | | Received by / Company Name | | | | Date | | | | Time | | | | Data Delivered: | | | | Standard | | State Samples Collected in? | | <input type="checkbox"/> | | SDWA Form? <input type="checkbox"/> MD <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> PA <input type="checkbox"/> Other _____ | | <input type="checkbox"/> | | Cl.P.Like <input type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> Reduced <input type="checkbox"/> NJ-Full <input type="checkbox"/> Other _____ | | <input type="checkbox"/> | | Data Form? <input type="checkbox"/> D-181 <input type="checkbox"/> D-182 <input type="checkbox"/> D-183 <input type="checkbox"/> D-184 <input type="checkbox"/> D-185 <input type="checkbox"/> D-186 <input type="checkbox"/> D-187 <input type="checkbox"/> D-188 <input type="checkbox"/> 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| Project Name#: NWIRP Bethpage Site 1 Quarterly Vapor | | ALSI Quote#: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Normal Standard TAT is 10-12 business days. <input type="checkbox"/> Rush Subject to ALSI approval and surcharge. | | Date Required: Approved By: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email: <u>jgood@nemw.com</u> | | Fax#: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Description/Location <small>(as it will appear on the lab report)</small> | | COC Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SVE-101-098644-101411 | | 10/1/11 12/4 G AIR 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SVE-101D-098644-101411 | | 10/1/11 12/4 G AIR 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 SVE-102-098644-101411 | | 10/2/11 12/4 G AIR 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| LOGGED BY (Please Print): <u>G. Gangemi</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 <u>G. Gangemi</u> | | 10/14/11 | 13:24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SAMPLLED BY (Please Print): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Received by / Company Name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Bethpage Site 1 Sampling Form

Sampler: G, G-16-mm
Date: 10/14/11

Signature: *G-16-mm*
Date: 10/14/11

Note: all pressures in "H2O unless otherwise specified

| Sampling Port | Can # | Reg # | P0 | P5 | P10 | P15 | P20 | P25 | P30 | System Pressure | Comments |
|---------------|-------|--------|----|----|-----|-----|-----|-----|-----|-----------------|----------|
| T1 | | | | | | | | | | | |
| TE | | | | | | | | | | | |
| AMB | | | | | | | | | | | |
| 101-I | 1835 | 736118 | 32 | 25 | 20 | 16 | 11 | 8 | 5 | 9 | |
| 101-D | 1536 | 1608 | 31 | 26 | 22 | 18 | 8 | 8 | 5 | 2 | |
| 102-I | 1799 | 1050 | 29 | 26 | 22 | 16 | 12 | 10 | 7 | 7 1/2 | |
| 102-D | 16810 | 1051 | 32 | 30 | 26 | 20 | 14 | 9 | 7 | 7 | |
| 103-KD | 1828 | 1024 | 32 | 29 | 26 | 23 | 20 | 17 | 14 | 17 | |
| 103-KT | 1074 | 1001 | 29 | 24 | 19 | 15 | 10 | 5 | 4 | 2 1/2 | |
| 104-KD | 10075 | 10472 | 32 | 27 | 21 | 17 | 12 | 8 | 5 | 8 1/2 | |
| 104-KT | 1054 | 1030 | 32 | 25 | 16 | 10 | 6 | 5 | 3 | 18 1/2 | |
| 105-KD | 1073 | 1073 | 32 | 29 | 25 | 20 | 16 | 12 | 8 | 9 | |
| 105-KT | 10046 | 1010 | 28 | 24 | 21 | 16 | 10 | 5 | 3 | 16 | |
| 106-KD | 5024 | 1043 | 31 | 27 | 24 | 16 | 13 | 10 | 8 | 14 | |
| 106-KT | 1072 | 1075 | 31 | 27 | 22 | 17 | 12 | 10 | 8 | 10 | |

1000 ft
above
sea level

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ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: H3 S Env. Inc .
Horizon WO#: Q932357
Sample Delivery Group ID: Kelli Shaw 10/17/11
Log In By/Date: Kelli Shaw
(signature)

Project Name/#: NWIRP Bethpage Site 1 Qrtly Vapor
Date/Time received: 10/15/11 09:00
Received By: Matthew Wolf
Project Manager Review (date)
(signature)
Courier: FedEx

Circle the response below as appropriate.

1. Did kit(s) come with a shipping slip (airbill, etc.)? YES NO NA
If YES, enter airbill numbers: _____

Shipping Container Information:

2. Were shipping containers received without signs of tampering? YES NO NA
Comments: _____

3. Were custody seals present and intact? YES NO NA
4. Were custody seals numbers present? YES NO NA

List Custody Seal Numbers: _____

Sample Condition:

5. Were sample containers received intact without signs of tampering? YES NO NA
Comments: _____

Chain of Custody:

6. Did COC arrive with the samples? YES NO NA
7. Do sample ID/Sample Description(s) match samples submitted? YES NO NA
8. Is date and time of collection listed on the COC for all samples? YES NO NA
9. Is identification of sampler on COC? YES NO NA
10. Are requested test method(s) on COC? YES NO NA
11. Are necessary signatures on COC? YES NO NA
12. Was Internal COC initiated? (should always be YES) YES NO NA

Sample Integrity Usability:

13. Do sample containers match the COC? YES NO NA
14. Were sample canisters received within 15 days of shipment to client? YES NO NA

Anomalies or Non-Conformances:

Rev. 2/2011

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December 14, 2011

Ms. Jennifer Good
H & S Environmental
160 East Main Street, 2F
Westborough, MA 01581

Certificate of Analysis

Project Name: **NWIRP Bethpage - GM-38**

Workorder: **9940702**

Purchase Order:

Workorder ID: **HNW034|NWIRP Bethpage - GM-38**

Dear Ms. Good,

Enclosed are the analytical results for samples received by the laboratory on Saturday, December 03, 2011.

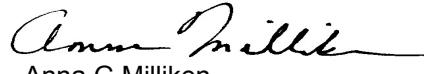
The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Anna G Milliken
Technical Manager

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SAMPLE SUMMARY

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

Discard Date: 02/12/2012

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|----------------------|--------|----------------|---------------|--------------|
| 9940702001 | SVE-SITE1-105D-12211 | Air | 12/2/11 12:00 | 12/3/11 08:25 | Customer |

Workorder Comments:

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Standard Acronyms/Flags

| | |
|--------|--|
| J, B | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |

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ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

| | | | | | |
|------------|-----------------------------|-----------------|-----------------|---------|-----|
| Lab ID: | 9940702001 | Date Collected: | 12/2/2011 12:00 | Matrix: | Air |
| Sample ID: | SVE-SITE1-105D-12211 | Date Received: | 12/3/2011 08:25 | | |

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|--------------------------------|---------|-------|-----------|-----|------|------|--------|----------|----------------|-----|------|
| VOLATILE ORGANICS @ STP | | | | | | | | | | | |
| Acetone | 1.9 | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Acrylonitrile | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| tert-Amyl methyl ether | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Benzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Benzyl Chloride | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Bromodichloromethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Bromoform | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Bromomethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,3-Butadiene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| n-Butane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 2-Butanone | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| tert-Butyl Alcohol | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Carbon Disulfide | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Carbon Tetrachloride | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Chlorobenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Chlorodibromomethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Chloroethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Chloroform | 0.67J | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Chloromethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 3-Chloro-1-propene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| o-Chlorotoluene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Cyclohexane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2-Dibromoethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2-Dichlorobenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,3-Dichlorobenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,4-Dichlorobenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Dichlorodifluoromethane | 0.61J | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,1-Dichloroethane | 38 | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2-Dichloroethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,1-Dichloroethene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| cis-1,2-Dichloroethene | 97 | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| trans-1,2-Dichloroethene | 0.79J | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2-Dichloropropane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| cis-1,3-Dichloropropene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| trans-1,3-Dichloropropene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,3-Dichloropropene, Total | 1.2U | ppbv | | 2.4 | 1.2 | 1.2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Diisopropyl ether | 0.84U | ppbv | | 1.2 | 0.84 | 0.84 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,4-Dioxane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Ethanol | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Ethyl Acetate | 0.84U | ppbv | | 1.2 | 0.84 | 0.84 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Ethyl tert-butyl ether | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

| Lab ID: | 9940702001 | Date Collected: 12/2/2011 12:00 | | | | | Matrix: | Air | | | |
|----------------------------|-----------------------------|---------------------------------|-----------|-----|------|------|---------|----------|----------------|-----|------|
| Sample ID: | SVE-SITE1-105D-12211 | Date Received: 12/3/2011 08:25 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Ethylbenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 4-Ethyltoluene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Freon 113 | 5.2 | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Freon-114 | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Heptane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Hexachlorobutadiene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Hexane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 2-Hexanone | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Isopropyl Alcohol | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Isopropylbenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| p-Isopropyltoluene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Methyl methacrylate | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Methyl t-Butyl Ether | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Methylene Chloride | 0.85J | ppbv | 1,2 | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Naphthalene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| iso-Octane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| n-Propylbenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Propylene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Styrene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Tetrachloroethene | 48 | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Tetrahydrofuran | 0.61J | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Toluene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Total Xylenes | 1.8U | ppbv | | 3.6 | 1.8 | 1.8 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2,4-Trichlorobenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,1,1-Trichloroethane | 170 | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,1,2-Trichloroethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Trichloroethene | 1300 | ppbv | | 12 | 6.0 | 6.0 | TO-15 | | 12/14/11 07:54 | ECB | A |
| Trichlorofluoromethane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2,3-Trichloropropane | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2,4-Trimethylbenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,3,5-Trimethylbenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2,3-Trimethylbenzene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Vinyl Acetate | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Vinyl Bromide | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Vinyl Chloride | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| o-Xylene | 0.60U | ppbv | | 1.2 | 0.60 | 0.60 | TO-15 | | 12/14/11 08:34 | ECB | A |
| mp-Xylene | 1.2U | ppbv | | 2.4 | 1.2 | 1.2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Acetone | 5 | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Acrylonitrile | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/14/11 08:34 | ECB | A |
| tert-Amyl methyl ether | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

| Lab ID: | 9940702001 | | | Date Collected: | 12/2/2011 12:00 | | Matrix: | Air |
|----------------------------|-----------------------------|-------|-----------|-----------------|-----------------|----|---------|----------------------|
| Sample ID: | SVE-SITE1-105D-12211 | | | Date Received: | 12/3/2011 08:25 | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared |
| Benzene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| Benzyl Chloride | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| Bromodichloromethane | 4U | ug/m3 | | 8 | 4 | 4 | TO-15 | 12/14/11 08:34 ECB A |
| Bromoform | 6U | ug/m3 | | 12 | 6 | 6 | TO-15 | 12/14/11 08:34 ECB A |
| Bromomethane | 2U | ug/m3 | | 5 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| 1,3-Butadiene | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | 12/14/11 08:34 ECB A |
| n-Butane | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | 12/14/11 08:34 ECB A |
| 2-Butanone | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| tert-Butyl Alcohol | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| Carbon Disulfide | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| Carbon Tetrachloride | 4U | ug/m3 | | 8 | 4 | 4 | TO-15 | 12/14/11 08:34 ECB A |
| Chlorobenzene | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| Chlorodibromomethane | 5U | ug/m3 | | 10 | 5 | 5 | TO-15 | 12/14/11 08:34 ECB A |
| Chloroethane | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| Chloroform | 3J | ug/m3 | | 6 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| Chloromethane | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/14/11 08:34 ECB A |
| 3-Chloro-1-propene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| o-Chlorotoluene | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| Cyclohexane | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| 1,2-Dibromoethane | 5U | ug/m3 | | 9 | 5 | 5 | TO-15 | 12/14/11 08:34 ECB A |
| 1,2-Dichlorobenzene | 4U | ug/m3 | | 7 | 4 | 4 | TO-15 | 12/14/11 08:34 ECB A |
| 1,3-Dichlorobenzene | 4U | ug/m3 | | 7 | 4 | 4 | TO-15 | 12/14/11 08:34 ECB A |
| 1,4-Dichlorobenzene | 4U | ug/m3 | | 7 | 4 | 4 | TO-15 | 12/14/11 08:34 ECB A |
| Dichlorodifluoromethane | 3J | ug/m3 | | 6 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| 1,1-Dichloroethane | 150 | ug/m3 | | 5 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| 1,2-Dichloroethane | 2U | ug/m3 | | 5 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| 1,1-Dichloroethene | 2U | ug/m3 | | 5 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| cis-1,2-Dichloroethene | 380 | ug/m3 | | 5 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| trans-1,2-Dichloroethene | 3J | ug/m3 | | 5 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| 1,2-Dichloropropane | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| cis-1,3-Dichloropropene | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| trans-1,3-Dichloropropene | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| 1,3-Dichloropropene, Total | 5U | ug/m3 | | 11 | 5 | 5 | TO-15 | 12/14/11 08:34 ECB A |
| Diisopropyl ether | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| 1,4-Dioxane | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | 12/14/11 08:34 ECB A |
| Ethanol | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | 12/14/11 08:34 ECB A |
| Ethyl Acetate | 3U | ug/m3 | | 4 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| Ethyl tert-butyl ether | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| Ethylbenzene | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| 4-Ethyltoluene | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | 12/14/11 08:34 ECB A |
| Freon 113 | 40 | ug/m3 | | 9 | 5 | 5 | TO-15 | 12/14/11 08:34 ECB A |
| Freon-114 | 4U | ug/m3 | | 8 | 4 | 4 | TO-15 | 12/14/11 08:34 ECB A |

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ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

| Lab ID: | 9940702001 | Date Collected: 12/2/2011 12:00 | | | | | Matrix: | Air | | | |
|----------------------------|-----------------------------|---------------------------------|-----------|--------|-----|----|---------|----------|----------------|-----|------|
| Sample ID: | SVE-SITE1-105D-12211 | Date Received: 12/3/2011 08:25 | | | | | | | | | |
| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
| Heptane | 2U | ug/m3 | | 5 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Hexachlorobutadiene | 6U | ug/m3 | | 13 | 6 | 6 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Hexane | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 2-Hexanone | 2U | ug/m3 | | 5 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Isopropyl Alcohol | 1U | ug/m3 | | 3 | 1 | 1 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Isopropylbenzene | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| p-Isopropyltoluene | 3U | ug/m3 | | 7 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Methyl Methacrylate | 2U | ug/m3 | | 5 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Methyl t-Butyl Ether | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 4-Methyl-2-Pentanone(MIBK) | 2U | ug/m3 | | 5 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Methylene Chloride | 3J | ug/m3 | 1,2 | 4 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Naphthalene | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| iso-Octane | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| n-Propylbenzene | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Propylene | 1U | ug/m3 | | 2 | 1 | 1 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Styrene | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,1,2,2-Tetrachloroethane | 4U | ug/m3 | | 8 | 4 | 4 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Tetrachloroethene | 330 | ug/m3 | | 8 | 4 | 4 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Tetrahydrofuran | 2J | ug/m3 | | 4 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Toluene | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Total Xylenes | 8U | ug/m3 | | 16 | 8 | 8 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2,4-Trichlorobenzene | 4U | ug/m3 | | 9 | 4 | 4 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,1,1-Trichloroethane | 930 | ug/m3 | | 7 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,1,2-Trichloroethane | 3U | ug/m3 | | 7 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Trichloroethene | 7000 | ug/m3 | | 64 | 32 | 32 | TO-15 | | 12/14/11 07:54 | ECB | A |
| Trichlorofluoromethane | 3U | ug/m3 | | 7 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2,3-Trichloropropane | 4U | ug/m3 | | 7 | 4 | 4 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2,4-Trimethylbenzene | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,3,5-Trimethylbenzene | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| 1,2,3-Trimethylbenzene | 3U | ug/m3 | | 6 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Vinyl Acetate | 2U | ug/m3 | | 4 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Vinyl Bromide | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Vinyl Chloride | 2U | ug/m3 | | 3 | 2 | 2 | TO-15 | | 12/14/11 08:34 | ECB | A |
| o-Xylene | 3U | ug/m3 | | 5 | 3 | 3 | TO-15 | | 12/14/11 08:34 | ECB | A |
| mp-Xylene | 5U | ug/m3 | | 10 | 5 | 5 | TO-15 | | 12/14/11 08:34 | ECB | A |
| Surrogate Recoveries | Results | Units | Footnotes | Limits | | | Method | Prepared | Analyzed | By | Cntr |
| 4-Bromofluorobenzene (S) | 96 | % | | 70-130 | | | TO-15 | | 12/14/11 07:54 | ECB | A |
| 4-Bromofluorobenzene (S) | 98 | % | | 70-130 | | | TO-15 | | 12/14/11 08:34 | ECB | A |

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ANALYTICAL RESULTS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

Lab ID: **9940702001** Date Collected: 12/2/2011 12:00 Matrix: Air
Sample ID: **SVE-SITE1-105D-12211** Date Received: 12/3/2011 08:25

| Parameters | Results | Units | Footnotes | LOQ | LOD | DL | Method | Prepared | Analyzed | By | Cntr |
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|
|------------|---------|-------|-----------|-----|-----|----|--------|----------|----------|----|------|

Sample Comments:

The reporting limits for the TO15 analytes were raised due to the dilution of the sample caused by the level of target compounds.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9940702 HNW034|NWIRP Bethpage - GM-38

PARAMETER QUALIFIERS\FLAGS

- [1] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 144 and the control limits were 60 to 140.
- [2] The QC sample type LCSD for method TO-15 was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 146 and the control limits were 60 to 140.

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Bethpage Site 1 Sampling Form

Sampler: Greg Gansen
Date: 12/3/11

Signature:

Date: 12/3/11

Note: all pressures in "H₂O unless otherwise specified

| Sampling Port | Can # | Reg # | P0 | P5 | P10 | P15 | P20 | P25 | P30 | System Pressure | Comments |
|---------------|-------|---------|-----|-----|-----|-----|-----|-----|-----|----------------------|----------|
| T1 | | | | | | | | | | | |
| TE | | | | | | | | | | | |
| AMB | | | | | | | | | | | |
| 101-I | | | | | | | | | | | |
| 101-D | | | | | | | | | | | |
| 102-I | | | | | | | | | | | |
| 102-D | | | | | | | | | | | |
| 103-I | | | | | | | | | | | |
| 103-D | | | | | | | | | | | |
| 104-I | | | | | | | | | | | |
| 104-D | | | | | | | | | | | |
| 105-I | | | | | | | | | | | |
| 105-D | 5023 | 726/991 | -25 | -25 | -23 | -20 | -15 | -9 | -5 | 34" H ₂ O | * |
| 106-I | | | | | | | | | | | |
| 106-D | | | | | | | | | | | |

Note Reg gauge working start @ -35

Summer can gauge not working stuck on -30
② 1140 hrs Summer can gauge working @ -35 / in using reg gauge.

ALS Environmental Laboratory Locations Across North America

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ALS Environmental



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ALS-Middletown

TO-15 Sample Receipt Checklist

Client ID: H3 S Env

Horizon WO#: 9940702

Sample Delivery Group ID:

Log In By/Date: PLS

(signature) 12/3/11 1104

Number of Shipping containers received:

Circle the response below as appropriate.

1. Did kit(s) come with a shipping slip (airbill, etc.)? YES NO NA
If YES, enter airbill numbers: _____

Shipping Container Information:

2. Were shipping containers received without signs of tampering? YES NO NA
Comments: _____

3. Were custody seals present and intact? YES NO NA

4. Were custody seals numbers present? YES NO NA

List Custody Seal Numbers: _____

Sample Condition:

5. Were sample containers received intact without signs of tampering? YES NO NA
Comments: _____

Chain of Custody:

6. Did COC arrive with the samples? YES NO NA

7. Do sample ID/Sample Description(s) match samples submitted? YES NO NA

8. Is date and time of collection listed on the COC for all samples? YES NO NA

9. Is identification of sampler on COC? YES NO NA

10. Are requested test method(s) on COC? YES NO NA

11. Are necessary signatures on COC? YES NO NA

12. Was Internal COC initiated? (should always be YES) YES NO NA

Sample Integrity Usability:

13. Do sample containers match the COC? YES NO NA

14. Were sample canisters received within 15 days of shipment to client? YES NO NA

Anomalies or Non-Conformances:

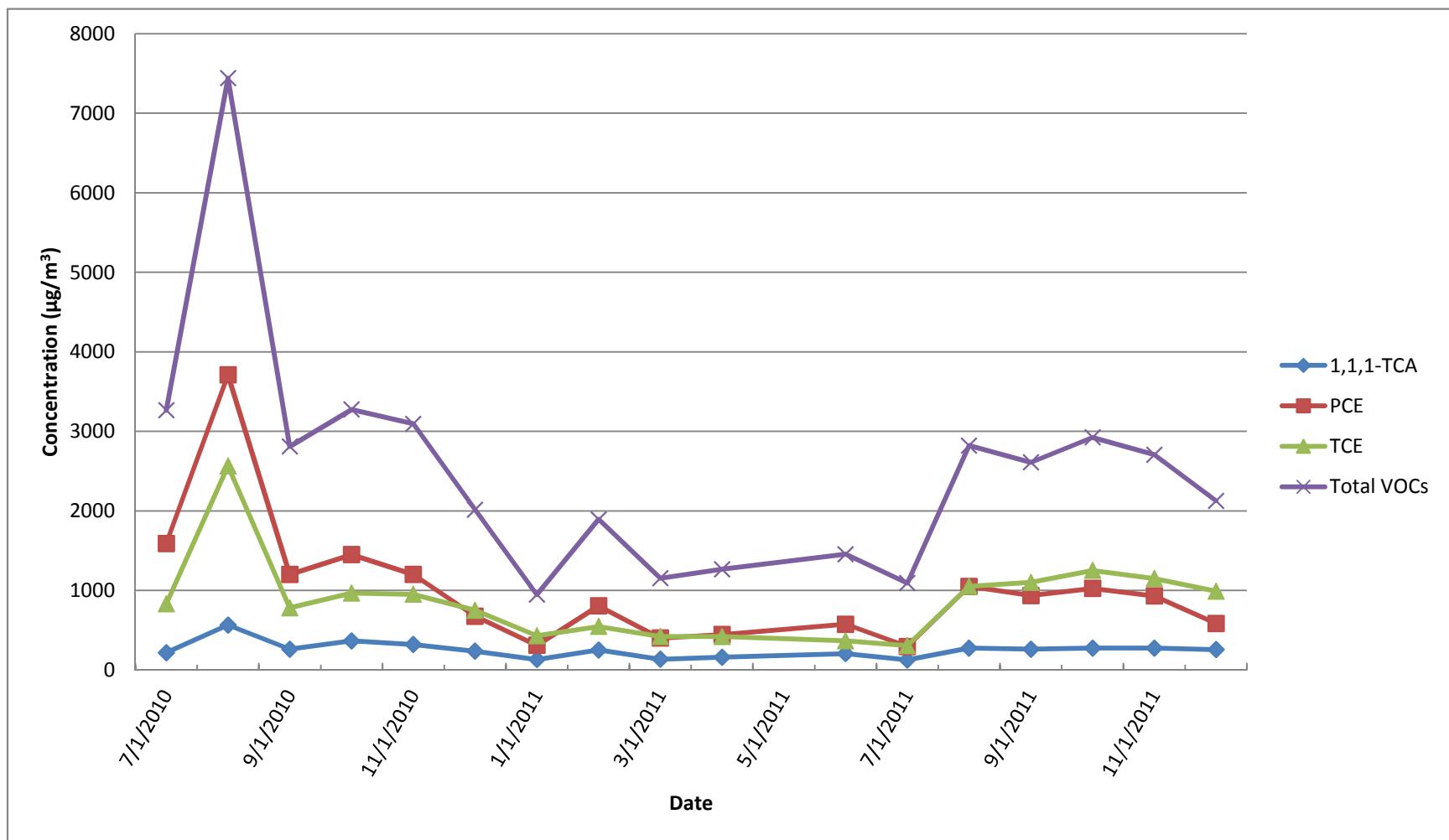
Rev. 2/2011

ALS Environmental Laboratory Locations Across North America

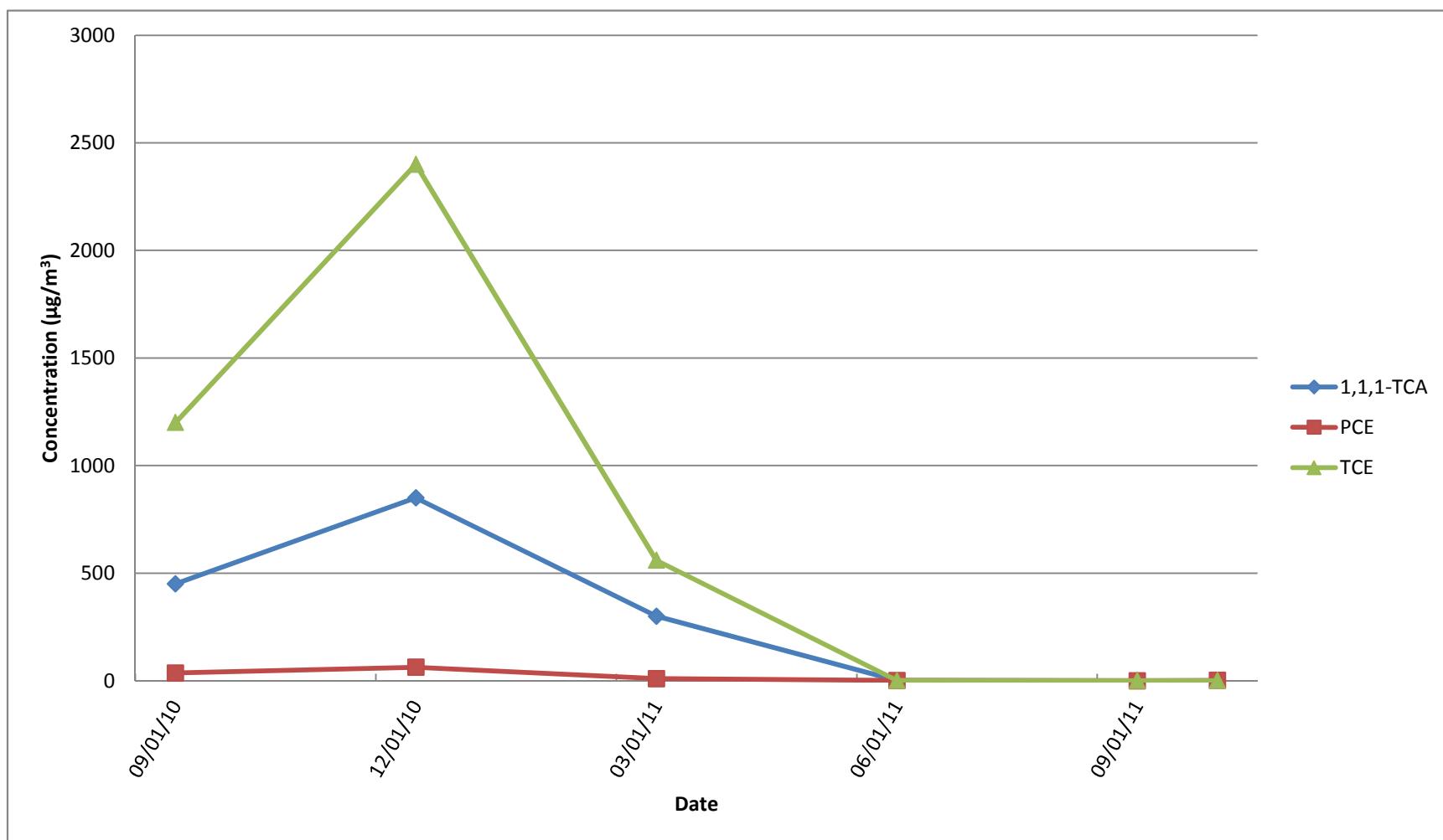
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

APPENDIX C
Vapor Concentration Trend Graphs

Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select and Total VOCs
COMBINED INFLUENT

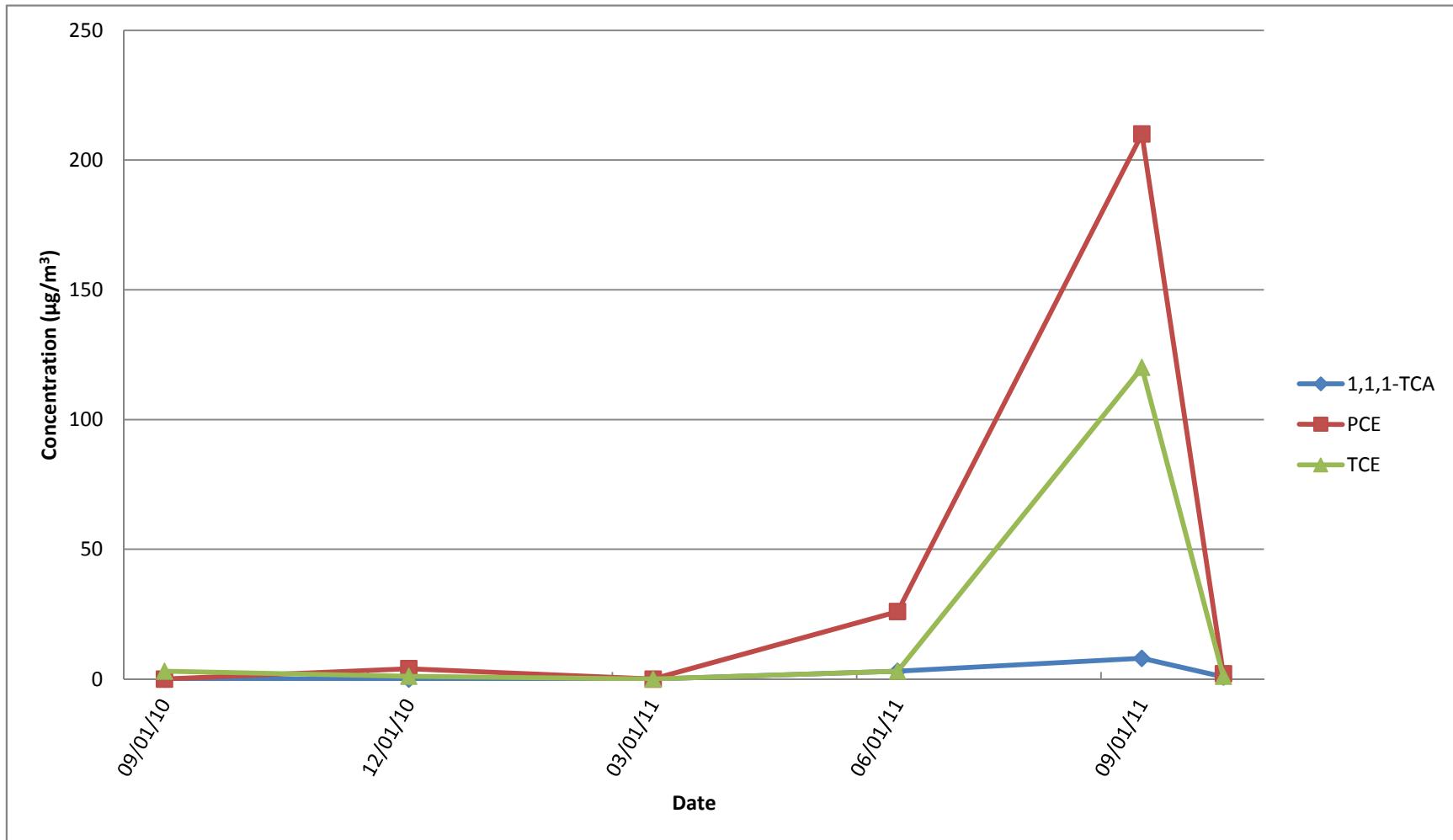


**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs
SV-101I**



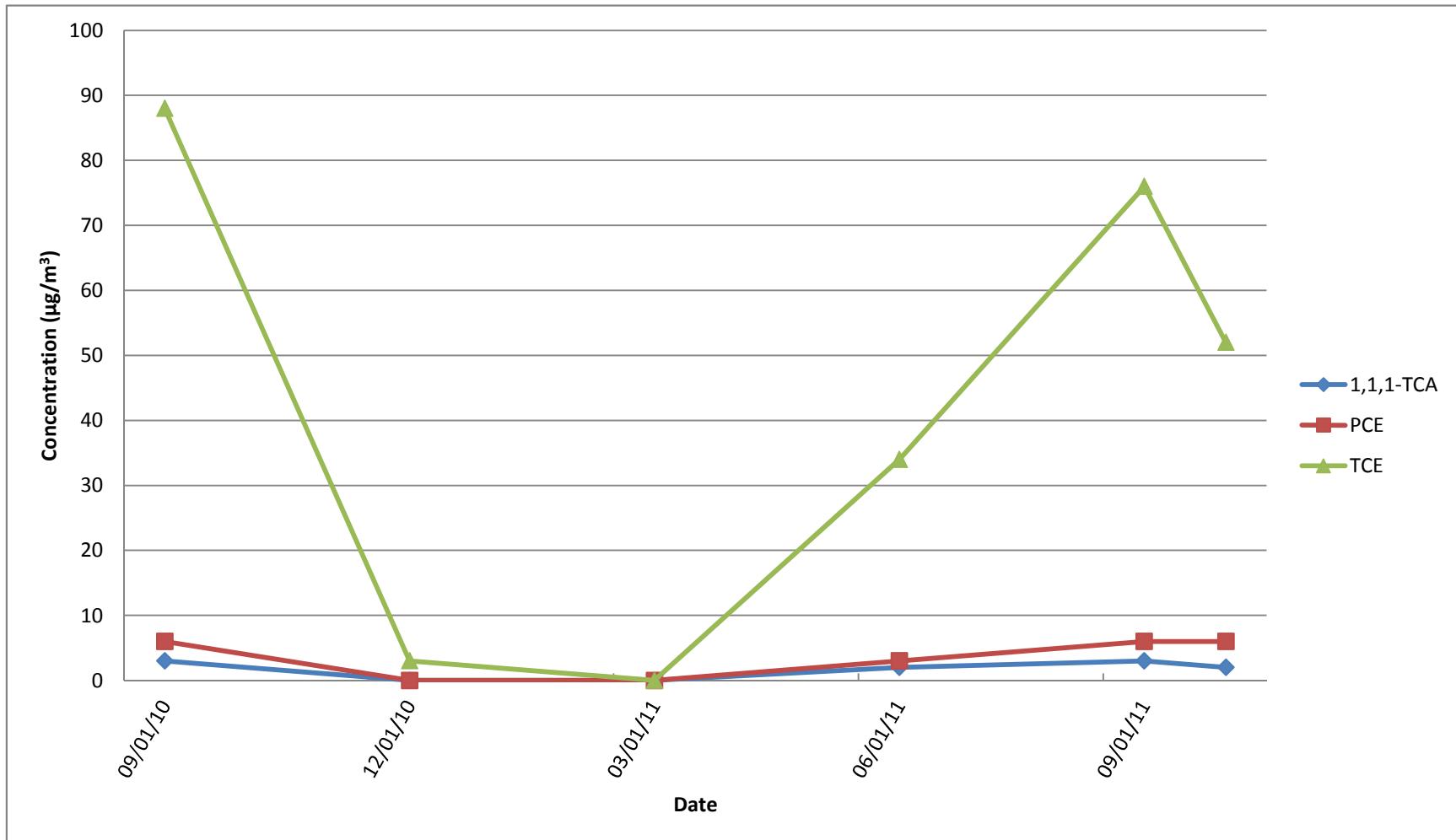
**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs**

SV-101D

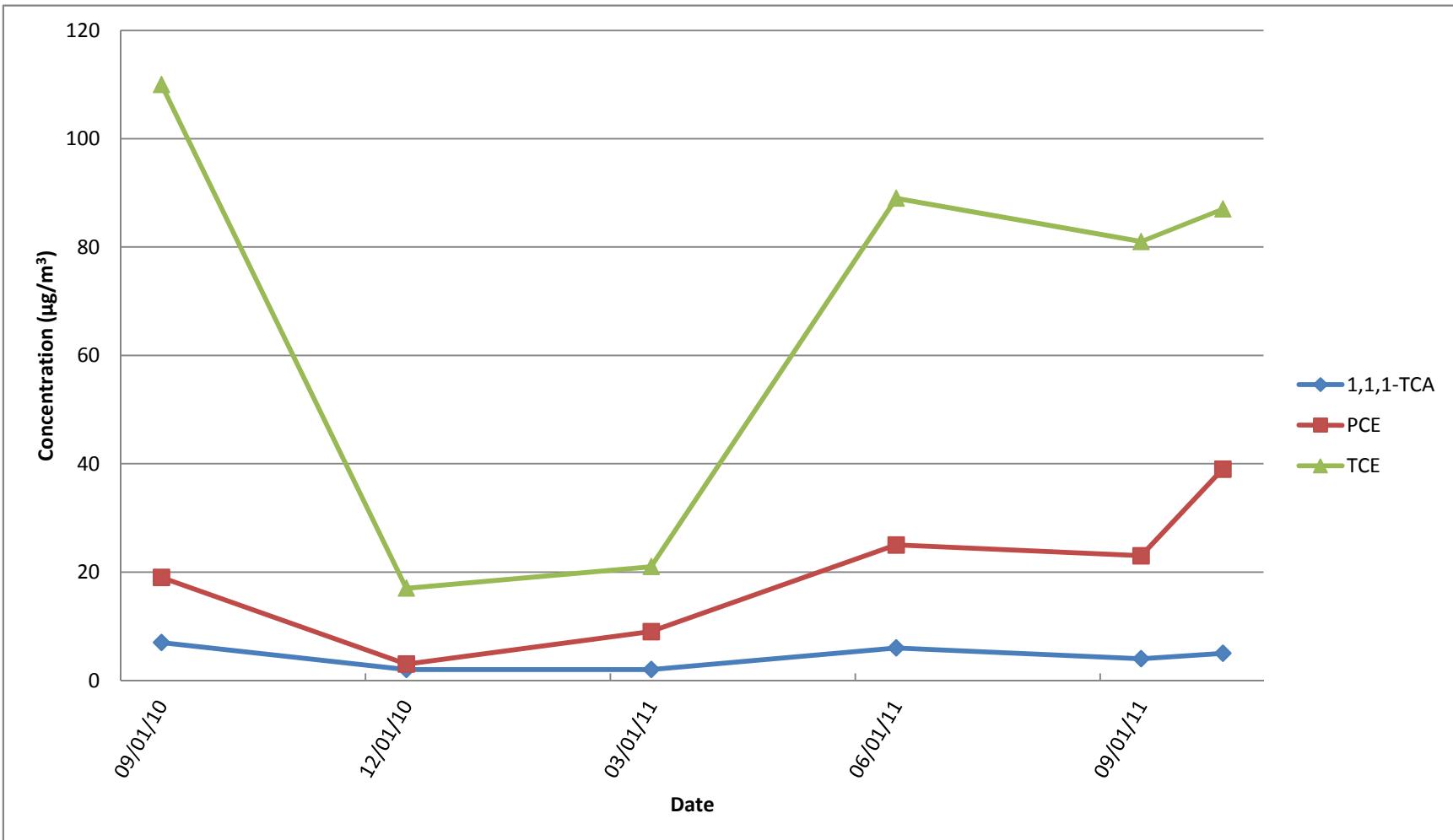


**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs**

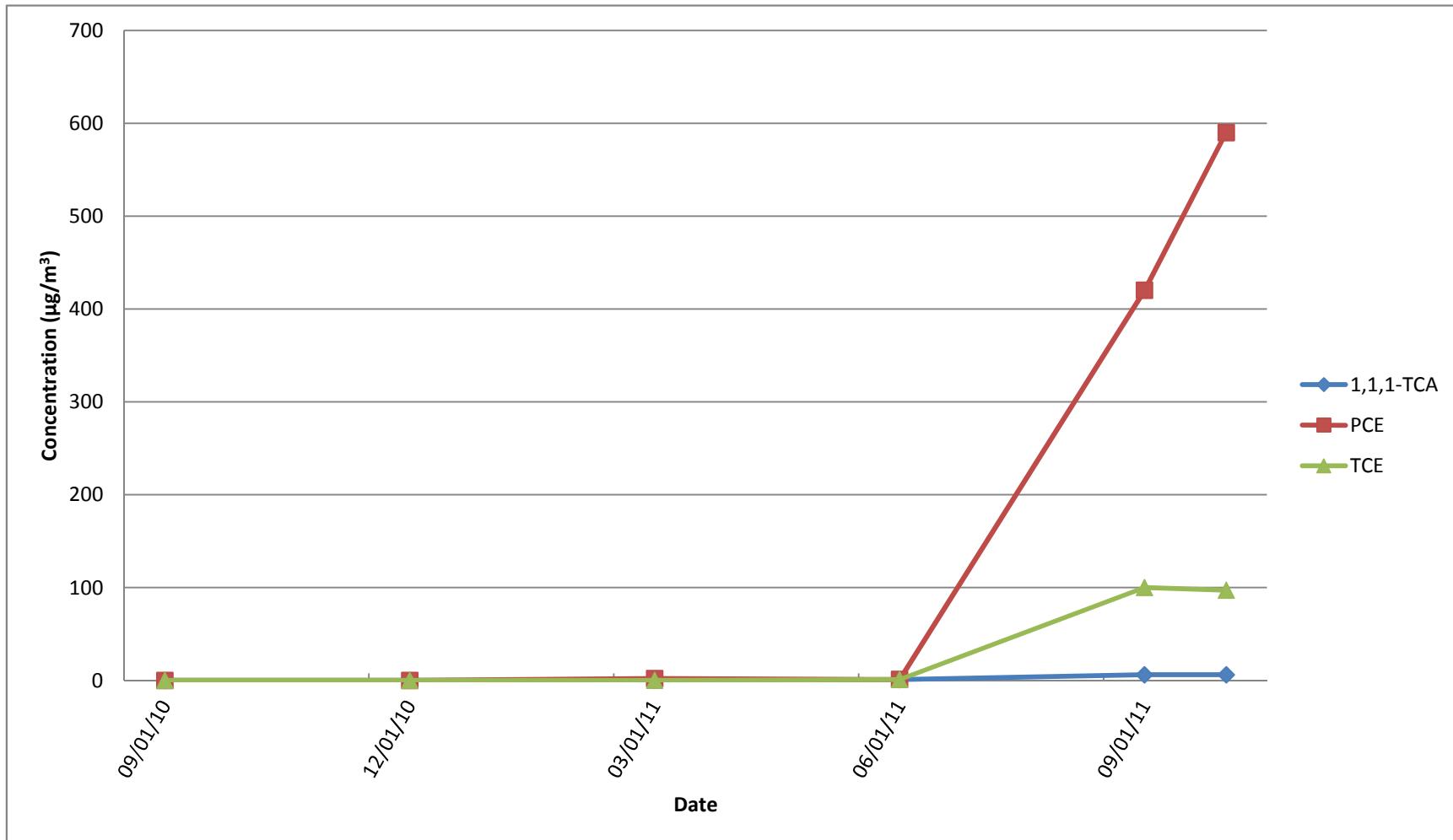
SV102I



**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs
SV-102D**

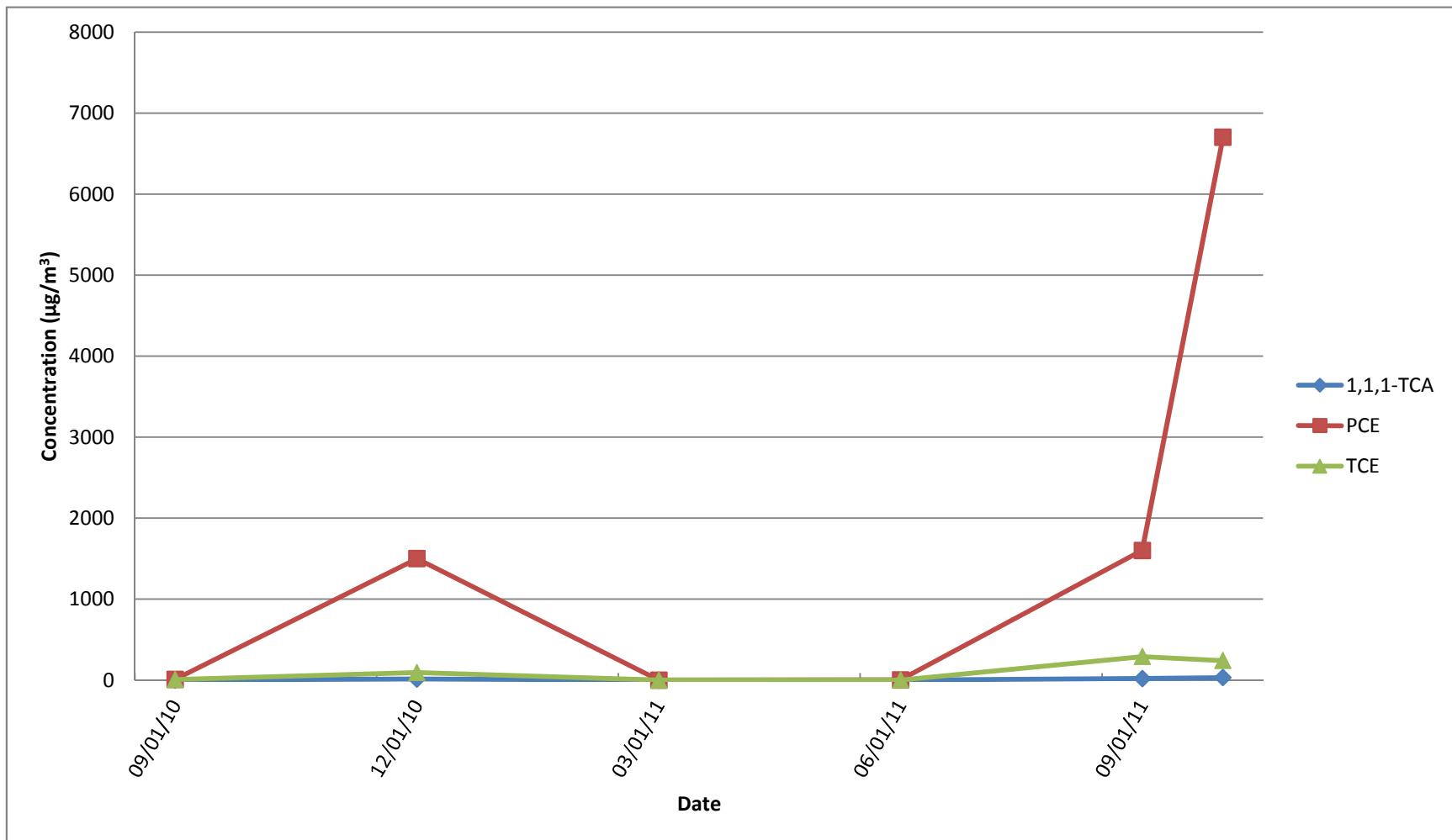


**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs
SV-103I**

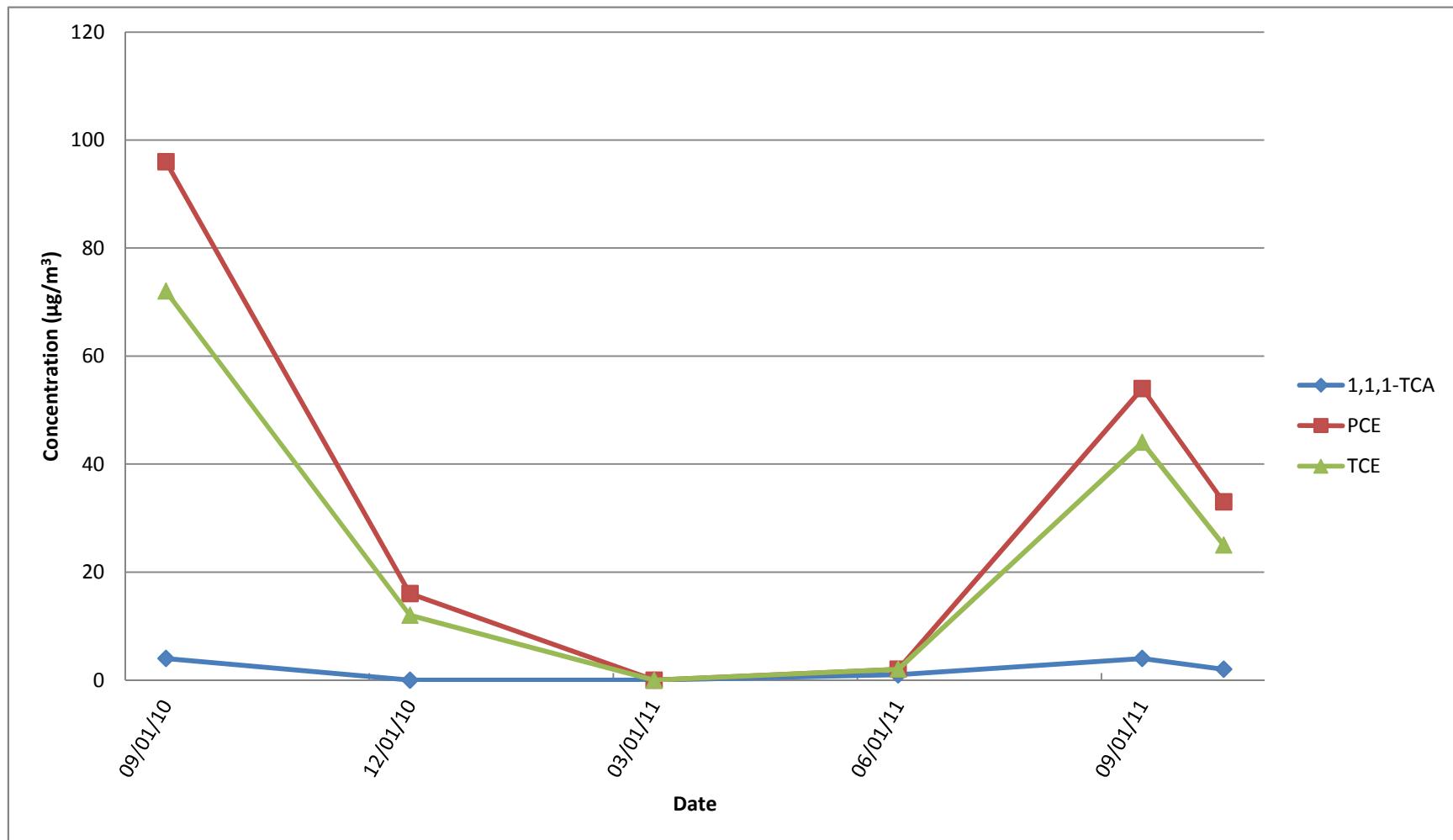


**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs**

SV103D

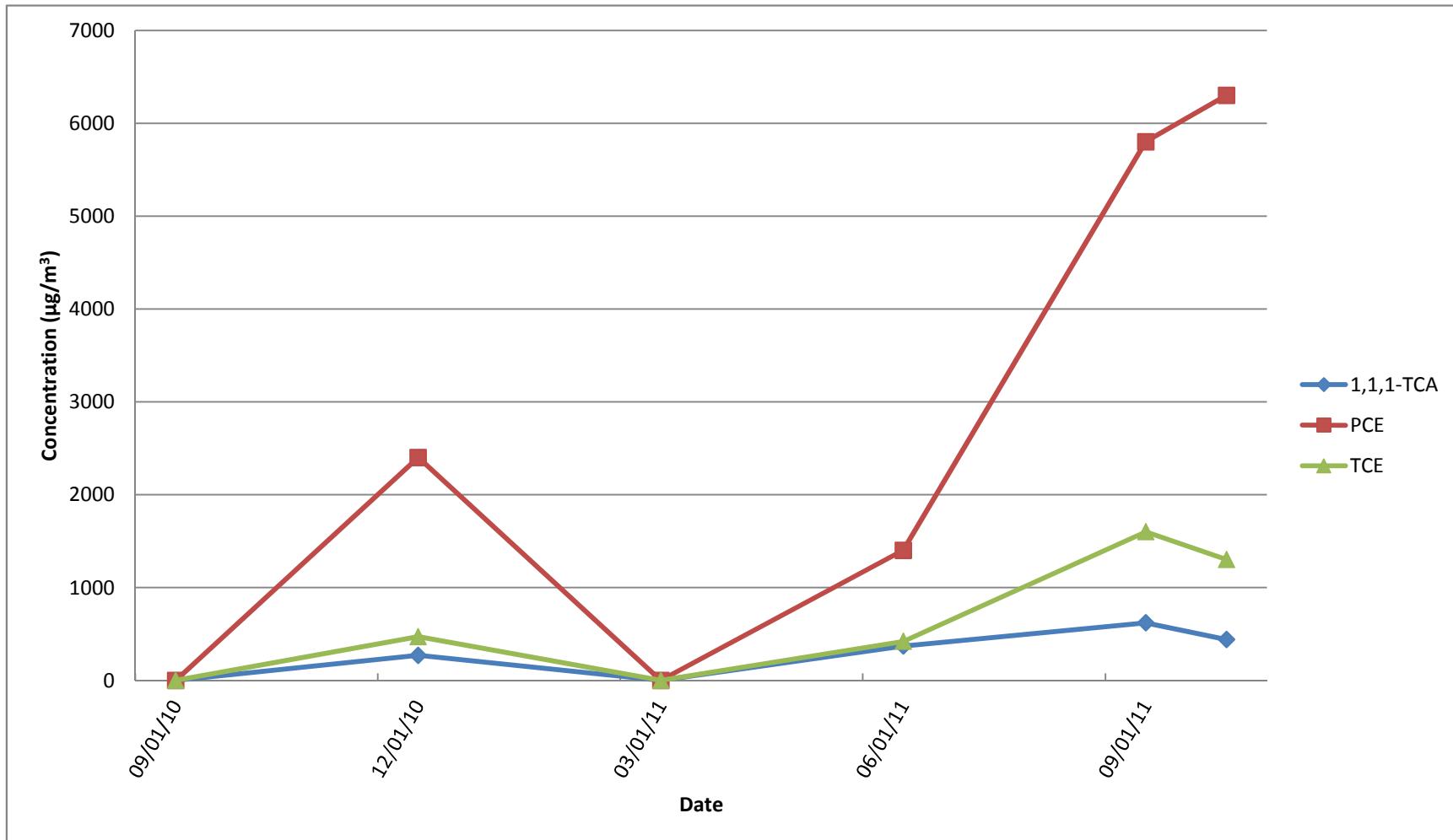


Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs
SV104I

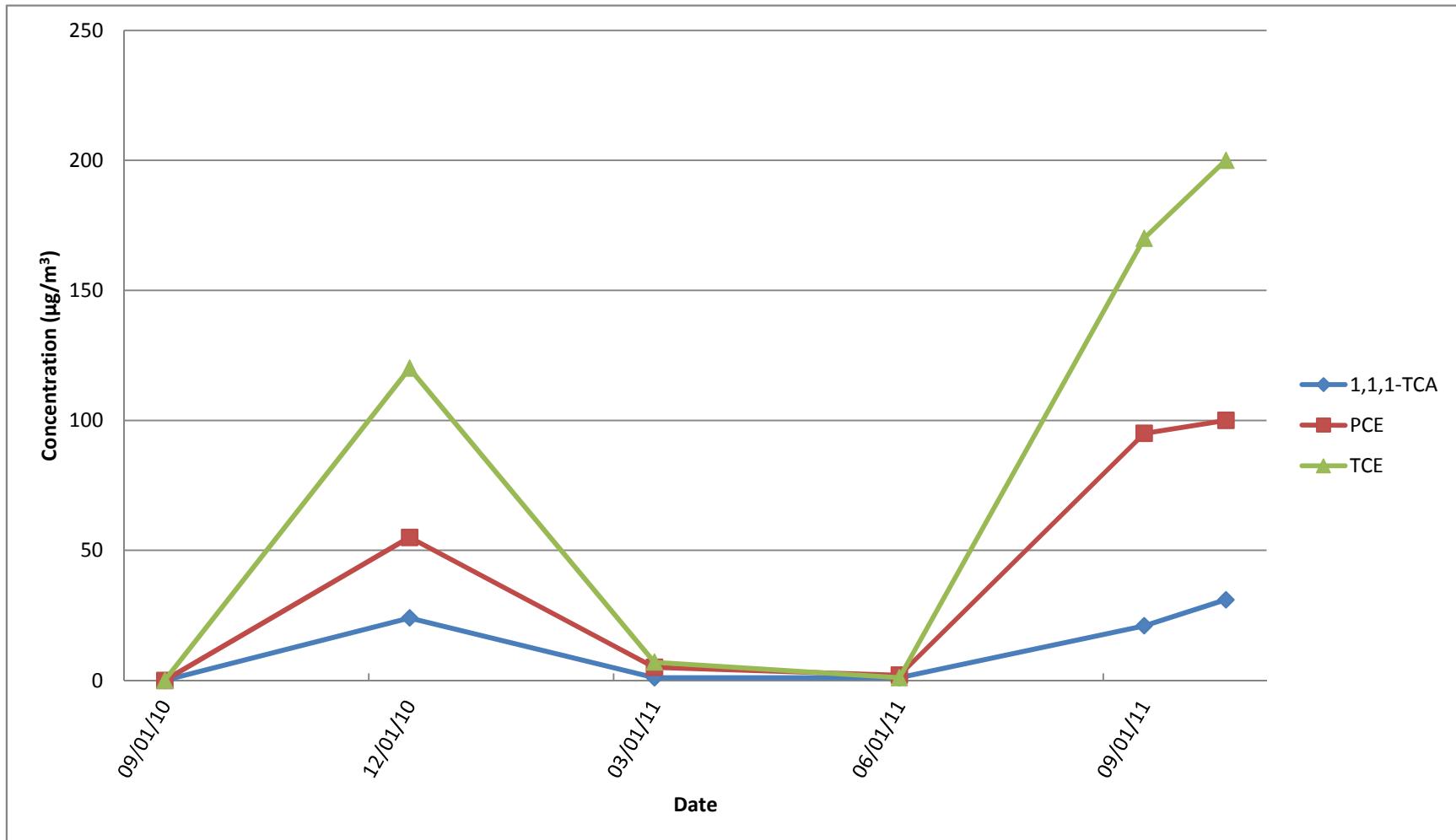


**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs**

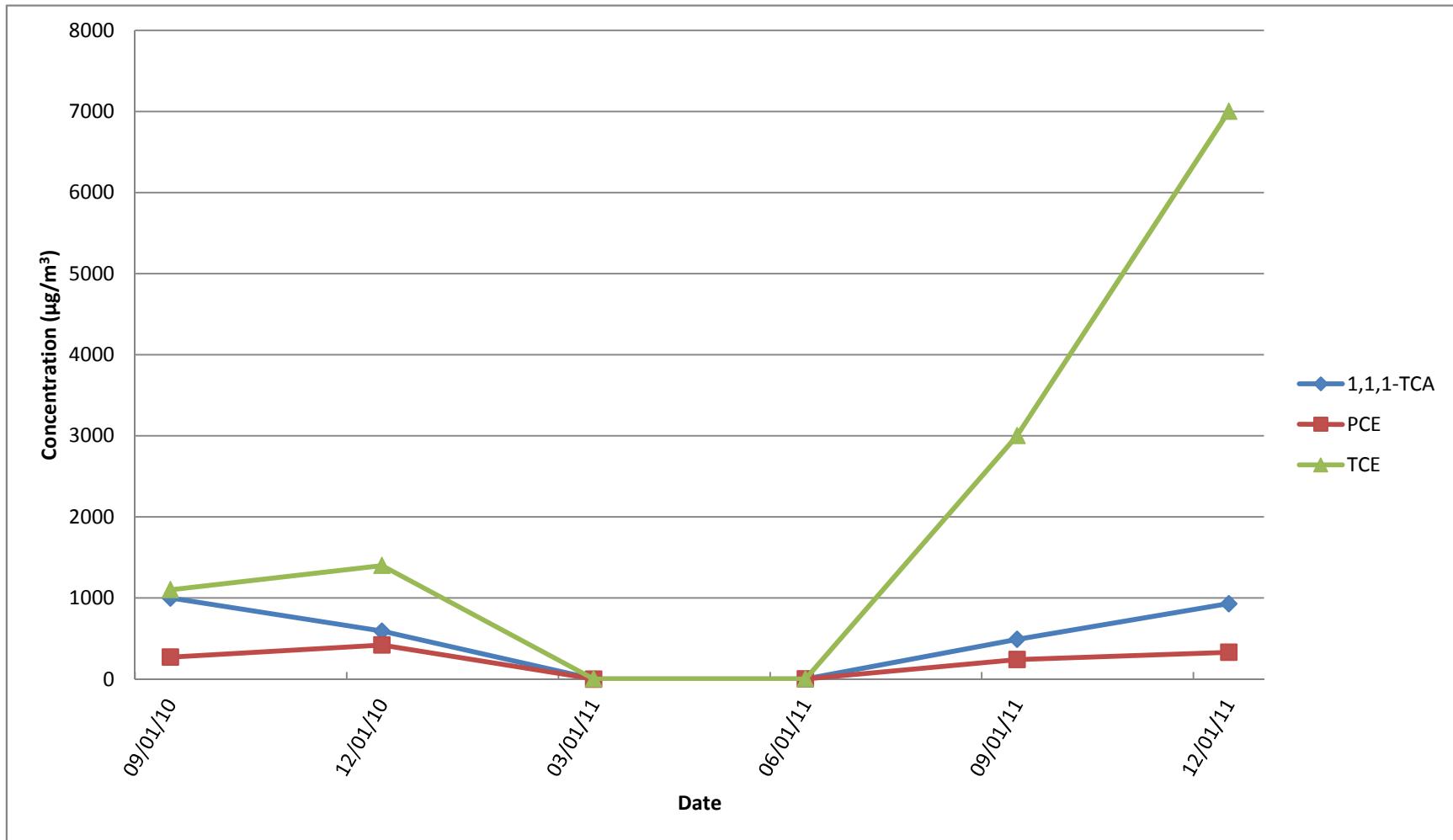
SV-104D



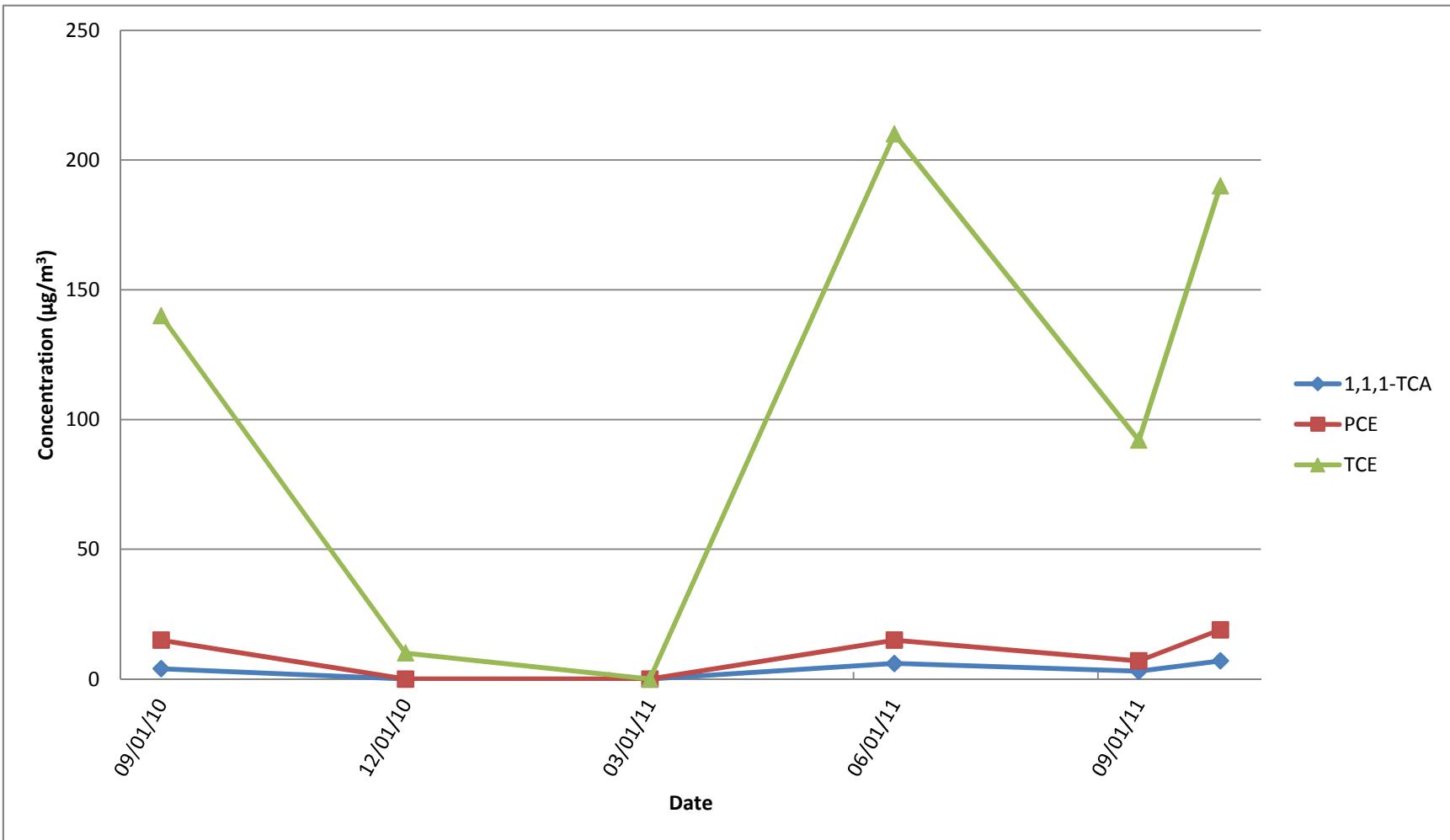
**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs
SV-105I**



**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs
SV-105D**



**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs
SV-106I**



**Soil Vapor Extraction Containment System
Site 1, Former Drum Marshalling Yard
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Vapor Concentration Trends of Select VOCs
SV-106D**

